

File 16:Gale Group PROMT(R) 1990-2005/May 10  
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 File 148:Gale Group Trade & Industry DB 1976-2005/May 11  
     (c) 2005 The Gale Group  
 File 160:Gale Group PROMT(R) 1972-1989  
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 File 275:Gale Group Computer DB(TM) 1983-2005/May 11  
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 File 621:Gale Group New Prod.Annou.(R) 1985-2005/May 11  
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 File 636:Gale Group Newsletter DB(TM) 1987-2005/May 11  
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 File 15:ABI/Inform(R) 1971-2005/May 10  
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 File 95:TEME-Technology & Management 1989-2005/Apr W1  
     (c) 2005 FIZ TECHNIK  
 File 476:Financial Times Fulltext 1982-2005/May 11  
     (c) 2005 Financial Times Ltd  
 File 610:Business Wire 1999-2005/May 11  
     (c) 2005 Business Wire.  
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 File 634:San Jose Mercury Jun 1985-2005/May 10  
     (c) 2005 San Jose Mercury News  
 File 810:Business Wire 1986-1999/Feb 28  
     (c) 1999 Business Wire  
 File 813:PR Newswire 1987-1999/Apr 30  
     (c) 1999 PR Newswire Association Inc

Set	Items	Description
S1	3134	(DISK OR COMPILE OR COMPUTE) (1W) (FARM OR FARMS OR CLUSTER?)
S2	2368	(ACCESS? OR USAGE) (3N) (TIME() (FRAME? OR BASED OR PERIOD OR PERIODS))
S3	333074	((ACCESS? OR USAGE) (3N) (TIMED OR TIME OR TIMES) OR PRESET?)
S4	21694	(ACCESS? OR USAGE) (3N) SCHEDUL?
S5	323942	(ACCESS? OR USAGE) (3N) (CHARGE OR CHARGES OR COST OR COSTS - OR BILLABLE? OR BILLED OR BILLING? OR RATE OR RATES)
S6	641	AU=(YAMAMOTO, M? OR YAMAMOTO M? OR YAMAMOTO, A? OR YAMAMOTO A?)
S7	40	S1(S) (S2 OR S3 OR S4)
S8	35	S7 NOT PY>2001
S9	18	RD (unique items)
S10	3	S1(S)S5
S11	2	S10 NOT S9
S12	2	RD (unique items)
S13	644	S1(S) (CHARGE OR CHARGES OR COST OR COSTS OR BILLABLE? OR BILLED OR BILLING? OR RATE OR RATES)
S14	176	S13 NOT COMPUTE
S15	154	S14 NOT PY>2001
S16	112	RD (unique items)
S17	93	S16 NOT CHARGE?
S18	53	S17 NOT RATE?
S19	0	S6 AND S1

9/3,K/1 (Item 1 from file: 16)  
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08792217 Supplier Number: 76465074 (USE FORMAT 7 FOR FULLTEXT)  
**StorageTek Unveils Business Continuity Enhancements To Its Virtual Storage Manager.**

PR Newswire, pNA  
July 11, 2001  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 706

... The use of a disk buffer combined with virtual tape technology allows VSM to optimize **access time** by recalling, at electronic speeds, tape volumes stored on **disk**. With **Clustered VTSS**, the advantages of near instantaneous tape data recall can be applied in disaster recovery...

9/3,K/2 (Item 2 from file: 16)  
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06646306 Supplier Number: 55792088 (USE FORMAT 7 FOR FULLTEXT)  
**Massachusetts Company to Make Compute Farms the Computing Platform of the 21st Century.**

Business Wire, p1323  
Sept 20, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1155

... computing. Like the way server farms act as a centralized hub for powering e-commerce, **compute farms** centralize a technical computing environment - without sacrificing the autonomy afforded by the desktop. Thus, engineers remain in control of their own design stations and project **schedules**. With **access** to more power, they usually find their work returned much faster than before.

Compute farms...

9/3,K/3 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06529994 Supplier Number: 55319504 (USE FORMAT 7 FOR FULLTEXT)  
**Symantec Introduces First Utility to Completely Optimize Windows NT Volumes . Online.**

PR Newswire, p3365  
August 2, 1999  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 835

... file content is organized so that the data in each file is stored in contiguous **disk clusters**. Norton Speed Disk for Windows NT goes a critical step farther and optimizes drives as...

...important or frequently accessed files are at the beginning, which makes those files more quickly **accessible**, saving you valuable **time**. As a

result, Norton Speed Disk for Windows NT results in significant improvements in system...

**9/3,K/4 (Item 4 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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05539692 Supplier Number: 48397649 (USE FORMAT 7 FOR FULLTEXT)

**Box Hill's Fibre Box(R) Takes Center Stage at NAB**

PR Newswire, p0401CGW026

April 1, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1058

... R) Include:

\* NeTpower (M7650)

Storage Area Network (SAN)

The SAN addresses the need for real- time access to common  
**disk farms** .

Using two Fibre Boxes, NeTpower Symetra2 workstations, Transoft  
software and DLT(TM) media changers mounted...

**9/3,K/5 (Item 5 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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01701921 Supplier Number: 42120560 (USE FORMAT 7 FOR FULLTEXT)

**MICROPOLIS TO SELL A 3.5 INCH DISK HOLDING 1.05 GIGABYTES:**

Technical Computing, v6, n7, pN/A

June, 1991

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 192

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...in quantity eventually, but up \$6,000 to \$7,000 for final subsystems)  
with an **access time** of 10 milliseconds. Shipments will begin in the  
third quarter. The new drive will have...

...Micropolis also added its proprietary SCSI Array software to the 2112,  
planning to offer SCSI **disk farms** later this year. According to Mr.  
Baffa, this move "eliminates 90 of the overhead at...

**9/3,K/6 (Item 1 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

04590913 SUPPLIER NUMBER: 08511996 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**System will expand archiving of atmospheric data.**

Hosinski, Joan M.

Government Computer News, v9, n11, p73(1)

May 28, 1990

ISSN: 0738-4300

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 492

LINE COUNT: 00038

... with a capacity of 120 gigabytes, stores small, frequently used files and has a file **access time** of less than one second, Buzbee said. A Storage Technology Corp. 4400 silo holds 6,000 tapes with larger, less frequently used files. **Access time** is 10 seconds to 20 seconds. Tapes accessed less often are stored on open shelves...

9/3,K/7 (Item 2 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

04574891 SUPPLIER NUMBER: 08429772 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
New IBM PS/2s emphasize SCSI mass storage. (includes related article on the importance of the use of the SCSI interface) (Hardware Review) (IBM PS/2 Model 65 SX, Model 80-A31) (evaluation)  
Rosch, Winn  
PC Magazine, v9, n10, p33(3)  
May 29, 1990  
DOCUMENT TYPE: evaluation ISSN: 0888-8507 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2349 LINE COUNT: 00177

... blocks. Programs that take direct control of disk hardware--including benchmark tests that measure average **access times** --must be processed by the SCSI controller and turned into block commands. SCSI fits with...

9/3,K/8 (Item 1 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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01637618  
INDUSTRY'S FASTEST DISK OPTIMIZE PROGRAM INTRODUCED.  
NEWS RELEASE May 5, 1987 p. 11

... most often. These directories are then rewritten to the appropriate areas of the disk, reducing **access time** even further. The program uses on-screen diagrams to show the user's hierarchical directory tree structure and which **disk clusters** are used by a given directory or file. DS OPTIMIZE also provides extensive file management...

9/3,K/9 (Item 2 from file: 160)  
DIALOG(R)File 160:Gale Group PROMT(R)  
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01503115  
NEW RABBIT-7 SOFTWARE IMPROVES DISK PERFORMANCE FOR VAX/VMS SYSTEMS.  
NEWS RELEASE September 10, 1986 p. 11

... RAXCO is now accepting orders for RABBIT-7. Built to better control and manage the " **disk farms** " of today, RABBIT- 7 is a valuable tool for the system manager. For instance, RABBIT...

... 1. Reassemble files into contiguous disk space. This function reduces both CPU and I/O **time** to **access** file data. 2. Consolidate free space. Large blocks of free space provide an excellent opportunity...



9/3,K/10 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01931203 SUPPLIER NUMBER: 18182597 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**OpenVMS capacity planning. (operating system) (Product Support)**  
Fiorito, Tony  
Digital Systems Report, v18, n1, p13(4)  
Jan-Feb, 1996  
ISSN: 1086-9638 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1297 LINE COUNT: 00104

...ABSTRACT: example of capacity planning because it is a fundamental resource component and because disk space **usage** increases over **time** in a linear pattern. Users can collect **disk farm** profile data by using a DCL procedure and can utilize this procedure to develop a...

9/3,K/11 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

01802692 SUPPLIER NUMBER: 17162280 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tuning the Unix environment.**  
Nemzow, Martin  
STACKS, v3, n2, p23(6)  
Feb, 1995  
ISSN: 1070-8596 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 4344 LINE COUNT: 00365

... to minimize a disk I/O bottleneck, consider a solid state disk, or even a **disk farm** with multiple solid state disks. Just as a **disk farm** of mechanical disks or a single volume spanning multiple drives provides **access times** about four **times** faster than those of a single hard disk, you could expect to see **access times** in the 0.25 millisecond range with a solid state disk subsystem.

While a solid...

9/3,K/12 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01530745 SUPPLIER NUMBER: 12484726 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Disk management considerations in a local area VAXcluster. (Tutorial)**  
Walls, Keith  
VAX Professional, v14, n4, p7(5)  
July-August, 1992  
DOCUMENT TYPE: Tutorial ISSN: 8750-9628 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 4171 LINE COUNT: 00317

... SYS) in memory. When a node allocates space to its extent cache, it marks the **disk clusters** as "taken" in BITMAP.SYS so that no other node can collide with it by...

...demands disk space, the disk space demand is satisfied from cache rather than requiring disk **access**. The synchronization and **time** consumption problems are exacerbated in the cluster environment because all clusterwide

volume events must be...

9/3,K/13 (Item 4 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01224678 SUPPLIER NUMBER: 06514969  
**Avoid hard times for hard drives. (through the use of disk-defragmentation software and disk caching)**  
Elkins, T.A.  
Computerworld, v22, n14, p27(2)  
April 4, 1988  
ISSN: 0010-4841 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: medium-priced hard disk drives that come with a three-year warranty and that furnish **access times** in the 19- to 25-msec range. A defragmentation program can help ensure data integrity for hard **disk clusters** handled by the MSDOS operating system. SoftLogic Solutions markets the Disk Optimizer program, a defragmentation...

9/3,K/14 (Item 5 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01114350 SUPPLIER NUMBER: 00644222  
**Fixed Disks and the PC AT.**  
Shiell, J.; Markoff, J.  
Byte, v10, n11, p167-172  
Fall, 1985  
DOCUMENT TYPE: evaluation ISSN: 0360-5280 LANGUAGE: ENGLISH  
RECORD TYPE: ABSTRACT

...ABSTRACT: whether or not the AT supports noninterleaved hard disks, and using Debug to determine a **disk's cluster** size. Tables list sample transfer rates and comparisons of specifications for disk drive options on ...

...the standard disks and the Maxtor disk, the time required for a 127Kbyte read operation, **access time**, transfer **time** and performance index comparisons with standard and Maxtor disks, and transfer time and performance index...

9/3,K/15 (Item 1 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

04489734 Supplier Number: 57618776 (USE FORMAT 7 FOR FULLTEXT)  
**SYMANTEC: Symantec introduces first utility to cocompletely optimise Windows NT volumes online.**  
M2 Presswire, pNA  
Nov 17, 1999  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 854

... file content is organised so that the data in each file is stored in contiguous **disk clusters**. Norton Speed Disk for Windows NT goes a

critical step further and optimises drives as...important or frequently-accessed files are at the beginning. This makes those files more quickly **accessible** , saving you valuable **time** . As a result, Norton Speed Disk for Windows NT results in significant improvements in system...

9/3,K/16 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2005 ProQuest Info&Learning. All rts. reserv.

01699399 03-50389

**Fast access tape...rejuvenating tape applications**

Elizer, Lee H

Computer Technology Review v18n8 PP: 20 Aug 1998

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 1292

...TEXT: line, many users have access to the data and desire-often strongly desire-a reasonable **access time** to data. The IT group within the corporation may not have the budget resources to implement the traditional fast access devices ( **disk farms** , RAID, and sometimes optical). Hence, the proverbial trade-offs occur all over again, but with the added dimension of trying to make a historically slow **access time** to data device (tape) into a substantially faster data supplier to the user.

Applications Of...

9/3,K/17 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
(c) 2005 ProQuest Info&Learning. All rts. reserv.

00977467 96-26860

**Novell HSM systems offer profits and pitfalls for VARs and integrators**

Trowbridge, Dave

Computer Technology Review Supplement PP: 48-51 Fall/Winter 1994

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 2106

...TEXT: structure that serves human needs.

HSM is actually a four-dimensional technology whose axes are **access time** , cost, capacity, and location. It moves data in time as well as space. From fast hard disk, to hard **disk farm** or server, to optical, to tape libraries, to the shelf in the corporate data vault...

9/3,K/18 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2005 The Dialog Corp. All rts. reserv.

08279749 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**SYMANTEC: Symantec introduces first utility to completely optimise Windows NT volumes online**

M2 PRESSWIRE

November 17, 1999

JOURNAL CODE: WMPR LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 832

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... important or frequently-accessed files are at the beginning. This makes those files more quickly **accessible** , saving you valuable **time** . As a result, Norton Speed Disk for Windows NT results in significant improvements in system...  
?

12/3,K/1 (Item 1 from file: 16)  
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05233001 Supplier Number: 47979812 (USE FORMAT 7 FOR FULLTEXT)  
**Embedded 'Supercomputer' Boards In Development**  
Jaenicke, Richard  
Electronic News (1991), p051  
Sept 15, 1997  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1532

... INTEL i860 and i960.

At the next level, multiple processors are combined into a parallel **compute cluster** via a crossbar interconnect between processors and banks of memory. At this level, important features include shared memory and uniform memory access (UMA). UMA guarantees that the **cost** to **access** any location in memory is the same for all processors and all memory locations. This...

...efficient operation of software tools which automatically parallelize programs across all processors in the parallel **compute cluster**. In addition, the hardware needs to provide an efficient synchronization mechanism at this level.

Hardware...

12/3,K/2 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2005 The Dialog Corp. All rts. reserv.

27371887  
**'BIO-COMPUTE FARMS WILL FUEL FUTURE DRUG RESEARCH'** (use of these farms will offer low cost access to databases and processing power to consumers)  
INDIA BUSINESS INSIGHT  
February 01, 2003  
JOURNAL CODE: WIBI LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 108

**'BIO-COMPUTE FARMS WILL FUEL FUTURE DRUG RESEARCH'** (use of these farms will offer low cost access to databases and processing power to consumers)

... by companies to increase data mining activities. The use of these grids will offer low **cost** **access** to databases and processing power to consumers. Tata Elxsi has already employed 60 persons who...

18/3,K/1 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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08688737 Supplier Number: 75261583 (USE FORMAT 7 FOR FULLTEXT)  
**It isn't the net, stupid-it's the computers. (Internet/Web/Online Service Information)**  
Grochow, Jerrold M.  
eWeek, p47  
June 4, 2001  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 487

... the Internet that is driving new product development; it is the combined advances of low- cost /high-power PCs, massive servers and **disk farms** , as well as easy- to-use browser software, that provide the medium for new ideas...

18/3,K/2 (Item 2 from file: 16)  
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08109925 Supplier Number: 67546517 (USE FORMAT 7 FOR FULLTEXT)  
**Rescue the Files You Need; Wipe Out Those You Don't - Did you hit Delete when you meant Save? You have more options than you think. (Technology Information)**  
Rubenking, Neil J.  
PC Magazine, p107  
Jan 2, 2001  
Language: English Record Type: Fulltext Abstract  
Document Type: Magazine/Journal; General Trade  
Word Count: 1865

... service, instead of being sequestered as evidence for the duration of the proceeding.  
Once the **disk clusters** that were occupied by a deleted file have been overwritten with new data, the file...  
...is painstaking and expensive. In most cases, recreating the lost data from scratch is more **cost** -effective.  
Recovery Prevention Utilities  
Have you ever donated an old computer to a school or...

18/3,K/3 (Item 3 from file: 16)  
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07961950 Supplier Number: 65727639 (USE FORMAT 7 FOR FULLTEXT)  
**What's in store for storage. (Technology Information)**  
Fong, Kevin  
Network World, p57  
Oct 2, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; General Trade  
Word Count: 472

Before the Internet, companies regarded storage as an operation in

which large **disk farms** stood ready to relay requested information. As storage requirements grew, corporations began implementing separate storage ...

...are still contained and managed within the corporation at great expense, largely due to the **cost** of finding, hiring and retaining skilled IT workers.

Now a group of start-ups called...

18/3,K/4 (Item 4 from file: 16)  
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05635040 Supplier Number: 50066770 (USE FORMAT 7 FOR FULLTEXT)  
**New AdvanSys Four-Channel, Ultra SCSI Adapter With Flash BIOS Benefits High End Integrators and Resellers; See ABP980UA at Traxdata PC Expo Booth No. 665.**

Business Wire, p06091108  
June 9, 1998  
Language: English Record Type: Fulltext  
Article Type: Article  
Document Type: Newswire; Trade  
Word Count: 504

... can install four, 4-channel cards in a single CD-ROM server to create CD **disk farms**. Or, they can take advantage of the ability to control 28 devices from one PCI slot. The **cost** savings to integrators with multiple SCSI devices, combined with the efficiency of only using one ...

18/3,K/5 (Item 5 from file: 16)  
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05366133 Supplier Number: 48160782 (USE FORMAT 7 FOR FULLTEXT)  
**Australia - Microsoft Exchange Launched 12/04/97**  
Newsbytes, pN/A  
Dec 4, 1997  
Language: English Record Type: Fulltext  
Document Type: Newswire; General Trade  
Word Count: 261

... blowing out the message store limit from 16GB to the size of the server's **disk**, **clustering** support for NT 4.0 Enterprise, Notes, PROFS and SNADS connectors and, as a headache saver for network managers, users can recover their own deleted messages. The Standard Edition **costs** A\$1,479 for a five-client pack, the Enterprise Edition (which includes the connectors) **costs** \$5,229 for a 25-client pack.

Reported by Newsbytes News Network <http://www.newsbytes...>

18/3,K/6 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05141297 Supplier Number: 47847958 (USE FORMAT 7 FOR FULLTEXT)  
**For a practical problem, participants tackle car repairs: Interconnect**

**workshop explores telerobotics**  
Brown, Chappell  
Electronic Engineering Times, p32  
July 21, 1997  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 997

... of data per second, and a 10-Gbyte RAM for temporary storage really doesn't **cost** much these days. Most designs also included Tbyte **disk farms** and Tflop computers to coordinate the system. The central challenge turned out to be the...

**18/3,K/7 (Item 7 from file: 16)**  
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04736338 Supplier Number: 46972293 (USE FORMAT 7 FOR FULLTEXT)  
**EMC'S SYMMETRIX CAPTURES \$4.8 MILLION SALE FOR COMDISCO'S YEAR 2000 BUSINESS SERVICES.**  
Business Wire, p12161166  
Dec 16, 1996  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 682

... storage and disaster recovery vendors will benefit dramatically from their ability to minimize disruption and **costs** associated with their customers' year 2000 conversions. In its October 1996 report entitled, "Taming the... ✓

...vendors will team with disaster recovery players like Comdisco" to lease time on system and **disk farms**.  
"Once again, EMC is providing us with the leading-edge storage technology our customers need...

**18/3,K/8 (Item 8 from file: 16)**  
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04481714 Supplier Number: 46579170 (USE FORMAT 7 FOR FULLTEXT)  
**ANS expands network services portfolio**  
InfoWorld, p053  
July 29, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 391

... a dedicated server, which can have three discrete Web sites, provide data storage at ANS' **disk farm**, and help in creating and maintaining the Web-based data. Usage, including the number of users and the amount of data downloaded, will determine the actual **cost**, but the initial fee includes the 99.5 percent uptime guarantee.  
That guarantee only covers...

**18/3,K/9 (Item 9 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)



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04372626      Supplier Number: 46412802    (USE FORMAT 7 FOR FULLTEXT)  
**Riot of RAID solutions arises -- Data-storage technology expected to be  
standard by 2000**

Computer Reseller News, p109

May 27, 1996

Language: English      Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count:    901

...      when a group of scientists at the University of California at  
Berkeley investigated using small **disk** drives **clustered** into an array  
and compared the performance and **cost** of this type of storage  
configuration to the use of a Single Large Expensive Disk...

**18/3,K/10      (Item 10 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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04065067      Supplier Number: 45917680    (USE FORMAT 7 FOR FULLTEXT)  
**PC servers widen scope: Pentium Pro SMP systems target client/server  
applications**

InfoWorld, p001

Nov 6, 1995

Language: English      Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count:    565

...      64-bit operating systems to take advantage of it, so it's not  
really a **cost** of hardware issue; it's more the **cost** of labor, a new  
operating system, and the **disk farm** that will be required."

**18/3,K/11      (Item 11 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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04030069      Supplier Number: 45859481    (USE FORMAT 7 FOR FULLTEXT)  
**Compaq Announces Clustering Roadmap; Compaq, Microsoft and Tandem Team to  
Drive Industry-Standard Clustering.**

Business Wire, p10161120

Oct 16, 1995

Language: English      Record Type: Fulltext

Document Type: Newswire; Trade

Word Count:    1133

...      Databases

A key component of the Compaq clustering strategy is a highly  
available, scalable, shared- **disk cluster** for servers. Compaq and Tandem  
have teamed to co-develop and promote the Tandem ServerNet...

...an industry-standard method for exchanging data between servers. Compaq  
and Tandem will be developing **cost** -effective PCI-based ServerNet cards  
along with ServerNet routers.

"Compaq and Tandem have joined forces...

**18/3,K/12      (Item 12 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)  
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03833853 Supplier Number: 45482223 (USE FORMAT 7 FOR FULLTEXT)  
**NEW SYMMETRY 5000 MODELS MOBILISE THE 100MHZ VERSION OF THE PENTIUM**  
Computergram International, n2646, pN/A  
April 19, 1995  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 379

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...5m with 22 processors, 3Gb RAM and 407Gb disk. An average system is expected to **cost** around \$1.26m with 10 processors, 1.5Gb RAM and 110Gb **disk**. The **clustered** SE100 comes with two or four SE30s or SE70s, shared disk and software. It **costs** \$566,000 with two dual-processor SE30s each with 256Mb RAM and 2Gb disk, plus...

...dual -processor SE70s with 256Mb RAM and 2Gb disk each linked to 47Gb shared disk **cost** \$1.046m. Users of Sequent's previous generation of systems, the Symmetry 2000 can get...

**18/3,K/13 (Item 13 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02833512 Supplier Number: 43811327 (USE FORMAT 7 FOR FULLTEXT)  
**Overview: What Are Clients and Servers Anyway?**  
Network Computing, pS10  
May, 1993  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1967

... resources can represent some of the greatest costs.  
In environments where legacy systems remain as **disk farms**, maintaining masses of data too large for smaller systems, host maintenance **costs** are reduced but still high, and the **costs** of the newer systems are simply added. As more distributed systems are added to the...

**18/3,K/14 (Item 14 from file: 16)**  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02710221 Supplier Number: 43622440 (USE FORMAT 7 FOR FULLTEXT)  
**BIG 3 ADAPT TO 'SMALL' TREND**  
CommunicationsWeek, pWP19  
Feb 1, 1993  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 1226

... while the file server maintains directory information.  
IBM officials even expect some users to cut **costs** by buying low-end IBM ES/9000 CPUs and used IBM DASDs and building very inexpensive **disk farms**.

Other products related to this tactic include the promised Advanced

Peer-to-Peer Networking software...

18/3,K/15 (Item 15 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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02297792 Supplier Number: 43005991 (USE FORMAT 7 FOR FULLTEXT)  
**VITESSE, SEAGATE DEVELOPING 1GBPS FIBRE CHANNEL GaAs SET**  
Computergram International, n1924, pN/A  
May 19, 1992  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 283

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...Corp is doing something about it. The company reports that it is developing a low- **cost** , low-power ANSI X3T9.3 Fibre Channel-compatible chip set designed to be used as...

...based disk controller manufacturer Interphase Corp. The set is being designed to provide a low- **cost** standards-based integrated means to achieve serial data communications at up to 1Gbps. The first...

...high performance computer systems, from file servers to supercomputers, and high performance disk drives or **disk clusters** . By serialising the link, real-time communications can be provided **cost** -effectively over optical fibre in medium to long haul applications or over co-ax for...

...protocol at up to 1.0625Gbps. The set under development is a modified, much lower **cost** version of the G-TAXIchip devices announced by Vitesse earlier this year (CI No 1...

18/3,K/16 (Item 16 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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01840311 Supplier Number: 42327864 (USE FORMAT 7 FOR FULLTEXT)  
**RAID Storage Systems Pair Higher Fault-Tolerance With Lower Cost**  
Marketing Computers, v0, n0, p37  
Sept, 1991  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 614

... While RAID is less expensive than a completely redundant system, it still comes at a **cost** . RAID technology can run 40%-60% higher in **cost** than a conventional **disk farm** . Expect **costs** to drop as market and production volumes ramp up, but for now, making disk arrays...

18/3,K/17 (Item 17 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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01701921 Supplier Number: 42120560 (USE FORMAT 7 FOR FULLTEXT)  
**MICROPOLIS TO SELL A 3.5 INCH DISK HOLDING 1.05 GIGABYTES:**  
Technical Computing, v6, n7, pN/A

June, 1991  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 192

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Micropolis also added its proprietary SCSI Array software to the 2112, planning to offer SCSI **disk farms** later this year. According to Mr. Baffa, this move "eliminates 90 of the overhead at almost no **cost** " for managing the farms.

**18/3,K/18 (Item 1 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

09301364 SUPPLIER NUMBER: 19069311 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Storage: EMC's Symmetrix captures \$4.8 million sale for Comdisco's Year 2000 Business Services. (Comdisco Disaster Recovery Services purchase) (Company Business and Marketing)**

EDGE: Work-Group Computing Report, v7, p48(1)

Dec 23, 1996

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 697 LINE COUNT: 00064

... vendors will team with disaster recovery players like Comdisco" to lease time on system and **disk farms** .

"Once again, EMC is providing us with the leading-edge storage technology our customers need...

**18/3,K/19 (Item 2 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

08875754 SUPPLIER NUMBER: 18531436

**ANS expands network services portfolio. (America Online Inc subsidiary ANS will provide WAN-based internetwork and Web services) (Company Business and Marketing) (Brief Article)**

Quinlan, Tom

InfoWorld, v18, n31, p53(1)

July 29, 1996

DOCUMENT TYPE: Brief Article ISSN: 0199-6649 LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 419 LINE COUNT: 00036

... including the number of users and the amount of data downloaded, will determine the actual **cost** , but the initial fee includes the 99.5 percent uptime guarantee.

That guarantee only covers...

**18/3,K/20 (Item 3 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

08729748 SUPPLIER NUMBER: 18345760 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Riot of RAID solutions arises. (Industry Trend or Event)**

Pang, Albert

Computer Reseller News, n685, p109(2)

May 27, 1996

ISSN: 0893-8377

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 944

LINE COUNT: 00077

... Berkeley investigated using small disk drives clustered into an array and compared the performance and **cost** of this type of storage configuration to the use of a Single Large Expensive Disk...

18/3,K/21 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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08263255 SUPPLIER NUMBER: 17528548 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**PC servers widen scope: Pentium Pro SMP systems target client/server applications. (Intel's four-way symmetric multiprocessing architectures for enterprise servers) (Product Information)**

Francis, Bob

InfoWorld, v17, n45, p1(2)

Nov 6, 1995

ISSN: 0199-6649

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 572

LINE COUNT: 00049

... hardware issue; it's more the cost of labor, a new operating system, and the **disk farm** that will be required."

18/3,K/22 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

08017452 SUPPLIER NUMBER: 17300048 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Temperature rising on market for redundant arrays; as mission-critical data proliferates, the RAID market boils.**

Balch, Karen

VARbusiness, v11, n8, p59(2)

May 15, 1995

ISSN: 0894-5802

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1384

LINE COUNT: 00108

... disk farm, it's more often 90 to 180 days because of the six-figure **cost** involved. Some say the falling price of the disk drives will make a difference, particularly...

18/3,K/23 (Item 6 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07267502 SUPPLIER NUMBER: 15388360 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Microsoft's Tiger beats the stripes off Oracle's server. (contrasting designs of multimedia servers) (Distributed Thinking) (Editorial)**

Alsop, Stewart

InfoWorld, v16, n21, p162(1)

May 23, 1994

DOCUMENT TYPE: Editorial

ISSN: 0199-6649

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 1016

LINE COUNT: 00075

... to integrate with the billing systems. But it delivers the video directly from a single **disk farm** to the video subscriber through whatever interactive medium is available.  
The vendors of both systems...

**18/3,K/24 (Item 7 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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05558782 SUPPLIER NUMBER: 11363534 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**RAID storage systems pair higher fault-tolerance with lower cost.**

(Redundant Array of Inexpensive Disks storage system) (product announcement)

Sharp, Bill

Marketing Computers, v11, n9, p37(1)

Sept, 1991

DOCUMENT TYPE: product announcement ISSN: 0895-5697 LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 674 LINE COUNT: 00051

... at a cost. RAID technology can run 40%-60% higher in cost than a conventional **disk farm**. Expect **costs** to drop as market and production volumes ramp up, but for now, making disk arrays...

**18/3,K/25 (Item 8 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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04780782 SUPPLIER NUMBER: 08780414 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Developments with Sharebase, FileTek, Charles River, NCR keep Teradata on its toes. (Charles River Data Systems Inc.)**

Ring, Katy

Computergram International, n1497, CGI08230008

August 23, 1990

ISSN: 0268-716X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 1017 LINE COUNT: 00078

... says that Teradata is pleased with Intel's progress, as it gives the company a **cost** -effective way of producing more performance. Teradata also has a deal with Charles River Data...

**18/3,K/26 (Item 9 from file: 148)**

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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04054126 SUPPLIER NUMBER: 07753135 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Data Switch 9390 extends IBM channels by 1,200 feet. (product announcement)**

Computergram International, n1220, CGI07140007

July 14, 1989

DOCUMENT TYPE: product announcement ISSN: 0268-716X LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 120 LINE COUNT: 00009

... are better physical security for disk drives, sharing disk among distributed computers, and isolation of **disk farm** operation - and the thing features dual load-sharing supplies for reliability. The 9390 extender is...

18/3,K/27 (Item 10 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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03911664 SUPPLIER NUMBER: 07352494 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Cost to IBM of fixing 3380K disk drive mishap put at anything from \$50m to \$300m.**

Computergram International, n1201, CGI06190018  
June 19, 1989

ISSN: 0268-716X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 1040 LINE COUNT: 00078

... disks rather than a partial or temporary unavailability of files. Industry sources suggest that the **cost** of a head-disk assembly when it leaves IBM's plant is \$5,000 to \$8,000. There are two HDAs in each 3380 unit. So the total **cost** to IBM for replacing the pair of spindles in a 3380 drive could easily be...

...annual profits in the \$6,000m range, could not easily bury such a large unanticipated **cost**. Nor would the manufacturer embark on an HDA replacement campaign so extensive unless it absolutely...

...if IBM's faulty disks were confined to production during just a few months, the **cost** would be much smaller - and more easily hidden in its vast budget. Some of the...

...it first cropped up. This has led industry sources to speculate that IBM's actual **cost** was limited to \$50m, the **cost** of repairing 3,000 to 4,000 drives. Even if the problem restricted to a...

18/3,K/28 (Item 11 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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03911647 SUPPLIER NUMBER: 07351860 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**IBM 3380K disk drives hit by severe head crashes.**

Computergram International, n1201, CGI06190001  
June 19, 1989

ISSN: 0268-716X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 198 LINE COUNT: 00015

TEXT:

...New York stockbroker says that IBM replaced all the head-disk assemblies in a vast **disk farm** of suspect 3380Ks, and the biggest embarrassment for IBM, which claims between 18 and 20...

18/3,K/29 (Item 12 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

03722051 SUPPLIER NUMBER: 06876768 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**The future of computer systems: shared resources.**

Mundie, Craig  
Electronic Design, v36, n26, p55(1)  
Nov 23, 1988

ISSN: 0013-4872 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 654 LINE COUNT: 00054

... availability due to the inherent modularity and redundancy. It's less expensive to build a **disk farm** for all users than to buy individual users enough disk capacity for their peak load...

**18/3,K/30 (Item 1 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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02125749 SUPPLIER NUMBER: 20059863 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Australia - Microsoft Exchange Launched.**  
Newsbytes, pNEW12040038  
Dec 4, 1997  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 265 LINE COUNT: 00025

... blowing out the message store limit from 16GB to the size of the server's **disk**, **clustering** support for NT 4.0 Enterprise, Notes, PROFS and SNADS connectors and, as a headache saver for network managers, users can recover their own deleted messages. The Standard Edition **costs** A\$1,479 for a five-client pack, the Enterprise Edition (which includes the connectors) **costs** \$5,229 for a 25-client pack.  
Reported by Newsbytes News Network <http://www.newsbytes...>

**18/3,K/31 (Item 2 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01583675 SUPPLIER NUMBER: 13401914 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Buying a business edge. (Redundant Array of Inexpensive Disks)**  
Fiorito, Tony  
DEC Professional, v12, n2, p28(1)  
Feb, 1993  
ISSN: 0744-9216 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 997 LINE COUNT: 00077

... RAID-5 solution, you need to look at your data in terms of three factors: **cost**, I/O performance and availability. Identify the primary categories of data in your **disk farm**. For each major data category, determine the relative importance of **cost**, I/O performance and availability.  
If any one of these factors is the overriding concern...

**18/3,K/32 (Item 3 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01463245 SUPPLIER NUMBER: 11457803 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Help About...: hard disk defragmentation.**  
Magnason, Stuart  
PC-Computing, v4, n11, p360(1)  
Nov, 1991  
ISSN: 0899-1847 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 204 LINE COUNT: 00014

TEXT:  
DOS works with disks in units called clusters; on a hard **disk**, a



**cluster** usually holds 2K or 4K of data. When you create or save a file on ...

...in an orderly, contiguous fashion--one cluster after another. Deleting a file frees the associated **disk clusters**. When you next copy or create a file, DOS begins using the freed clusters; when...

...ordered contiguously. Or you can do it yourself by following the steps in "The No- **Cost** Hard Drive Tune-Up," page 314.

**18/3,K/33 (Item 4 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01452727 SUPPLIER NUMBER: 10567695 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**System resilience. (system availability in the OLTP environment)**  
Bynon, David W.; Willis, John M.  
DEC Professional, v10, n4, p44(5)  
April, 1991  
ISSN: 0744-9216 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 2716 LINE COUNT: 00215

... primary HSCs. You can enlarge this configuration, as demonstrated in Figure 3. This is a **cost** -effective configuration for large **disk farms**. The added benefit of this HSC configuration is the ability to load-balance your I...  
...CAPTIONS: can guarantee reasonable availability of 32 storage devices. (chart); A cost-effective configuration for large **disk farms**. (chart); Securing user access. (chart)

**18/3,K/34 (Item 5 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01391877 SUPPLIER NUMBER: 09391162  
**Welcome to the cluster. (Micro Technology's CIQBA CI interconnect card)**  
Schoeniger, Eric  
DEC Professional, v10, n1, p32(1)  
Jan, 1991  
ISSN: 0744-9216 LANGUAGE: ENGLISH RECORD TYPE: ABSTRACT

...ABSTRACT: be connected directly to a star coupler and through the coupler to the HSC-based **disk farm**. It is a standard Q-bus quad-size card using a combination of firmware and software that emulates the CI bus. The card **costs** \$18,500, which includes installation and a one-year onsite warranty.

**18/3,K/35 (Item 6 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01331225 SUPPLIER NUMBER: 08402348  
**Down on the disk farm: thousands of daily transactions mean tending a bumper crop of data. (System Peripherals supplement)**  
Webb, Dave  
Computer Systems News, n465, pS16(3)  
April 30, 1990

ISSN: 0164-9981

LANGUAGE: ENGLISH

RECORD TYPE: ABSTRACT

...ABSTRACT: day, 365 days a year. Bank of America, for example, has three DASD centers or ' **disk farms** .' Two operate constantly and the third is a back-up center that can be brought...

**18/3,K/36 (Item 1 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03388939 Supplier Number: 46972765 (USE FORMAT 7 FOR FULLTEXT)  
**EMC: EMC's Symmetrix captures \$4.8 million sale for Comdisco's year 2000 business services**

M2 Presswire, pN/A  
Dec 16, 1996  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 723

... storage and disaster recovery vendors will benefit dramatically from their ability to minimize disruption and **costs** associated with their customers' year 2000 conversions. In its October 1996 report entitled, "Taming the...

...vendors will team with disaster recovery players like Comdisco" to lease time on system and **disk farms** .

"Once again, EMC is providing us with the leading-edge storage technology our customers need...

**18/3,K/37 (Item 2 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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03067180 Supplier Number: 46268987 (USE FORMAT 7 FOR FULLTEXT)  
**INTERNET, DATA BASES, AND CLIENT-SERVER: THE NEW COMMERCE MEDIUM**

Data Storage Report, pN/A  
April 1, 1996  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 499

... by credit or otherwise the cash account.

Initially, these data bases were maintained in massive **disk farms** on large mainframe. Workers accessed the computers via intelligent terminals. In the 1980s, the advent of lower- **cost** , client-server computing, relational data bases, and the PC changed information systems' **cost** structure.

Data bases began proliferating outside of the corporation's mainframe computers. They grew on...

**18/3,K/38 (Item 3 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02969454 Supplier Number: 46048905 (USE FORMAT 7 FOR FULLTEXT)  
**TELEPHONY, CABLE PROPELSALES OF VOD SERVERS Storage demands are expected to maintain impact on prices**

Interactive Video News, v4, n1, pN/A  
Jan 8, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 453

... hundreds of movies to thousands of subscribers, according to the report. The two most significant **cost** factors in a video server are the **disk farm** on which the video programs are stored and the RAM used to buffer the video...

**18/3,K/39 (Item 4 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02963455 Supplier Number: 46037825 (USE FORMAT 7 FOR FULLTEXT)  
**VIDEO ON DEMAND AT THE MILLENNIUM**  
Video Technology News, v9, n1, pN/A  
Jan 1, 1996  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 892

... costs will all bring prices down quickly in the coming years.  
"The two most significant **cost** factors in a video server are the **disk farm** on which the video programs are stored and the RAM used to buffer the video...

...transmission," the study explained. "As storage densities of both storage media continue to increase, the **cost** per gigabyte will continue to decline. As a result, we project a yearly server price...

**18/3,K/40 (Item 5 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02893151 Supplier Number: 45879384 (USE FORMAT 7 FOR FULLTEXT)  
**CLUSTERING: COMPAQ ANNOUNCES CLUSTERING ROADMAP; COMPAQ, MICROSOFT & TANDEM TEAM TO DRIVE INDUSTRY-STANDARD CLUSTERING**  
EDGE: Work-Group Computing Report, v6, n283, pN/A  
Oct 23, 1995  
Language: English Record Type: Fulltext  
Document Type: Newsletter; Trade  
Word Count: 937

... DATABASES A key component of the Compaq clustering strategy is a highly available, scalable, shared- **disk cluster** for servers. Compaq and Tandem have teamed to co-develop and promote the Tandem ServerNet...

...an industry-standard method for exchanging data between servers. Compaq and Tandem will be developing **cost** -effective PCI-based ServerNet cards along with ServerNet routers.

"Compaq and Tandem have joined forces...

**18/3,K/41 (Item 6 from file: 636)**  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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02101955 Supplier Number: 43887932 (USE FORMAT 7 FOR FULLTEXT)  
**MOVIES ON DEMAND: AT&T AND IBM COME UP WITH STRIKINGLY DIFFERING COMPUTER SOLUTIONS**

Computergram International, n2183, pN/A  
June 7, 1993  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 1358

... By Chris Rose

IBM and partners in the enterprise - New Century Communication Inc, which handles **billing**, and ICTV which has built the 'video Centrex' for linking the server to the subscriber...

...up from there: the claim is that the system supports a virtually unlimited number of **disk farms**. By teaming with the other two companies, IBM seems to be able to provide just...

...a system as the AT&T-NCR combo can promise. Pennsylvania-based New Century's **billing** and customer administration system is a relatively new product and the company claims that its...

...for a movie on a pay-per-view basis and then immediately switch to the **Billing** Channel to see how much they have shelled out. New Century is also mulling the possibility of the **Billing** Channel becoming a generalised clearing house for other companies' bills - so it may become possible...

...a big, fast file server. Irony fans will note that all of New Centry's **billing** software, so important to the enterprise, runs not on the mainframe but on RS/6000s...

18/3,K/42 (Item 7 from file: 636)  
DIALOG(R)File 636:Gale Group Newsletter DB(TM)  
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01311498 Supplier Number: 41508421 (USE FORMAT 7 FOR FULLTEXT)  
**DEVELOPMENTS WITH SHAREBASE, FILENET, CHARLES RIVER, NCR KEEP TERADATA ON ITS TOES**

Computergram International, n1496, pN/A  
August 23, 1990  
Language: English Record Type: Fulltext  
Document Type: Newswire; Trade  
Word Count: 950

... serach engine. Teradata uses a whole bank of Intel 80386 processors to search a vast **disk farm** at lightning speed - and some of the bluest of blue chips, particularly in the banking...

...says that Teradata is pleased with Intel's progress, as it gives the company a **cost** -effective way of producing more performance. Teradata also has a deal with Charles River Data...

18/3,K/43 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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575660 Supplier Number: 23530575 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**Riot of RAID solutions arises**

(Redundant Array of Independent Disks technology increasingly common approach to ensuring data storage)

Computer Reseller News, p 109+

May 27, 1996

DOCUMENT TYPE: Journal ISSN: 0893-8377 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 853

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...when a group of scientists at the University of California at Berkeley investigated using small **disk** drives **clustered** into an array and compared the performance and **cost** of this type of storage configuration to the use of a Single Large Expensive Disk...

18/3,K/44 (Item 2 from file: 9)

DIALOG(R)File 9:Business & Industry(R)

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82135 Supplier Number: 23201462 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**TEMPERATURE RISING ON MARKET FOR REDUNDANT ARRAYS**

(The strategic market for redundant arrays of independent disk (RAID) is forecast to grow in revenue from \$2.8 bil in 1994 to \$10 bil by 1998)

VAR Business, v XI, n 8, p 59+

May 15, 1995

DOCUMENT TYPE: Journal ISSN: 0894-5802 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1285

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...a high-capacity array, the typical time frame is 45 to 90 days. On a **disk farm**, it's more often 90 to 180 days because of the six-figure **cost** involved. Some say the falling price of the disk drives will make a difference, particularly...

18/3,K/45 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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02283611 95674305

**Clustering comes of age**

Borck, James R

InfoWorld v23n51 PP: 32 Dec 17, 2001

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 898

...TEXT: model for improving performance in large data warehouses.

Setting up partitioning has additional up-front **costs** and requires applications and transaction managers to be partition-aware for optimal routing. If partitions...

...of data and a new partition map, posing greater headaches than adding nodes to shared- **disk clusters**.

In cases with well-defined keys for modeling data partitions, a shared-nothing approach can...

18/3,K/46 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01241019 98-90414

**Riot of RAID solutions arises**

Pang, Albert

Computer Reseller News n685 PP: 109-110 May 27, 1996

ISSN: 0893-8377 JRNL CODE: CRN

WORD COUNT: 884

...TEXT: when a group of scientists at the University of California at Berkeley investigated using small **disk** drives **clustered** into an array and compared the performance and **cost** of this type of storage configuration to the use of a Single Large Expensive Disk...

18/3,K/47 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01210126 98-59521

**Fault-tolerant NT in the works**

Quinlan, Tom

InfoWorld v18n20 PP: 39 May 13, 1996

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 380

...ABSTRACT: and highly scalable clustering solutions to NT. Microsoft paid \$30 million toward Tandem's development **costs** to make sure NT had the same type of fault-tolerant and On-Line Transaction...

...NT will be able to support as many as 16 NT nodes, with support for **disk farms** being added in 1998.

18/3,K/48 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01131953 97-81347

**Sterling unifies RAID tracking**

Stedman, Craig

Computerworld v29n48 PP: 8 Nov 27, 1995

ISSN: 0010-4841 JRNL CODE: COW

WORD COUNT: 564

...TEXT: multivendor flexibility promised by Sterling could make life easier for storage managers and cut training **costs** in data centers that have mixed **disk farms**.

"There's always a chance that we'll buy [different arrays]. We really don't ...

18/3,K/49 (Item 5 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)  
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01122139 97-71533

**PC servers widen scope**

Francis, Bob

InfoWorld v17n45 PP: 1, 24 Nov 6, 1995

ISSN: 0199-6649 JRNL CODE: IFW

WORD COUNT: 559

...TEXT: 64-bit operating systems to take advantage of it, so it's not really a **cost** of hardware issue; it's more the **cost** of labor, a new operating system, and the **disk farm** that will be required."

**18/3,K/50 (Item 6 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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00977467 96-26860

**Novell HSM systems offer profits and pitfalls for VARs and integrators**

Trowbridge, Dave

Computer Technology Review Supplement PP: 48-51 Fall/Winter 1994

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 2106

...TEXT: serves human needs.

HSM is actually a four-dimensional technology whose axes are access time, **cost**, capacity, and location. It moves data in time as well as space. From fast hard disk, to hard **disk farm** or server, to optical, to tape libraries, to the shelf in the corporate data vault...

**18/3,K/51 (Item 7 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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00732968 93-82189

**Applications catch up to ATM**

Johnson, Johna Till

Data Communications v22n10 PP: 41-42 Jul 1993

ISSN: 0363-6399 JRNL CODE: DCM

...ABSTRACT: few hours a day; for instance, when shipping files across a network for archiving to **disk farms** or for communicating with remote printers. ATM is a high-speed switched service that gives...

...flexibility in routing, which translates into savings or subscribers. Wiltel's service looks to be **cost**-competitive with leased lines from AT&T. As an important part of its service, Wiltel...

**18/3,K/52 (Item 8 from file: 15)**

DIALOG(R)File 15:ABI/Inform(R)

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00510308 90-36065

**Storage Management in the VAX Environment**

Street, Derek

ComputerData vl5n4 PP: 26 Apr 1990  
ISSN: 0383-7319 JRNL CODE: CPD

...ABSTRACT: not, however, kept pace. Disk storage typically represents 60%-90% of the ongoing system management **cost**. Factors that influence this figure include: 1. the degree of fragmentation found on the disk...

...probably impossible; however, there is a need for tools that provide volume information at the **disk farm** or network level. Such tools placed in the hands of experienced system managers would reap...

18/3,K/53 (Item 1 from file: 95)  
DIALOG(R)File 95:TEME-Technology & Management  
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00917677 F95096080983

**Implementation of system intelligence in a 3-tier Tele-Medicine/PACS hierarchical storage management system**

(Implementierung der Systemintelligenz bei einem dreistufigen hierarchischen Tele-Medizin-PACS-Speichermanagementsystem)

Chao, W; Ho, BK; Chao, JT; Sadri, R; Lu Huang; Taira, R

Univ. of California, Los Angeles, USA

Medical Imaging 1995, PACS Design and Evaluation: Engineering and Clinical Issues, Proc., San Diego, USA, Feb 28 - Mar 2, 19951995

Document type: Conference paper Language: English

Record type: Abstract

**ABSTRACT:**

...medicine/PACS Archive system is based on a 3-tier distributed hierarchical architecture, including Magnetic **disk farms**, Optical jukebox, and Tape jukebox sub-systems. The Hierarchical Storage Management (HSM) architecture, built around a low **cost** high performance platform (Personal Computers (PC) and Microsoft Windows NT), presents a very scaleable and...

?



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 (c)2005 Knight Ridder/Tribune Bus News  
 File 609:Bridge World Markets 2000-2001/Oct 01  
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Set      Items      Description

S1	1054	DISK(1W) (FARM OR FARMS)
S2	658	S1 AND (ACCESS? OR USAGE)
S3	61	S2 AND (BILLABLE? OR BILLED OR BILLING?)
S4	48	S3 NOT PY>2001
S5	37	RD (unique items)
S6	50	S2 AND (TIME() (FRAME? OR BASED OR PERIOD OR PERIODS))
S7	47	S6 NOT S5
S8	35	S2(5N) (CHARGE OR CHARGES OR RATE OR RATES OR FEE OR FEES)
S9	28	S8 NOT S5
S10	25	S9 NOT PY>2001
S11	21	RD (unique items)

5/3,K/1 (Item 1 from file: 13)  
DIALOG(R)File 13:BAMP  
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00719988 Supplier Number: 25845817 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**How To Get The Most From A Host**

(Exercising due diligence is the first step in a 5-step plan for IT managers to follow to select the right Web hosting provider)

Article Author(s): Mullich, Joe

InternetWeek, p 97-100

September 25, 2000

DOCUMENT TYPE: Journal ISSN: 0746-8121 (United States)

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 2471

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...firsthand. Jakubowski says look for an uninterrupted power supply, diesel generator, fire-suppression system and **access** -control system along with plenty of infrastructure redundancy.

If the hoster has the right hardware...

...Pascal Aguirre, an analyst at consultancy Renaissance Strategies. "Some companies are trying to provide broadcast **access** themselves and some are partnering for it."

This can lead to different quality of fulfillment...

...Business Services.

Consider it a good sign if the ISP provides historical data on monthly **accessibility** rates for the sites it hosts. The provider should know how to measure and quantify...

...via remote network monitoring. "Remote monitoring sees the Web site the way customers trying to **access** the site would see it," says Jakubowski. "Often it is impossible to tell from the inside if there is a Web site **accessibility** problem, making remote monitoring critical."

PLAN FOR PROBLEMS

photo omitted

Harvey S. Jacobs, managing director...

...e-mail from a person who was assigned to handle all his company's service, **billing** and administrative problems--complete with a promise to make sure Jacobs would be routed directly...

...site security has three planks: physical, which safeguards against disasters and control over who has **access** to the provider's building; network, including firewalls and intrusion detection; and administrative.

A company...

...have a lot of discussion forums on your site? A hoster that has a large **disk farm** with a few fast machines might lack the necessary CPU the site requires. If you...

...control panel should do more than just configure your e-mail addresses and check your **billing** and personal data. It should provide you with the tools you need to completely control...

...ASPs, companies need to carefully balance their tactical requirements, such as time to market and **access** to technical resources and skills, with longer-term strategic goals, such as the desire to...

5/3,K/2 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02041548 55124743

**Hype: The top 10 failed (or failing) tech fads**

James, Geoffrey

MC Technology Marketing Intelligence v20n6 PP: 110-116 Jun 2000

ISSN: 1096-6528 JRNL CODE: MAK

WORD COUNT: 2507

...TEXT: some work done if a propeller-head in the data center decides to rebuild the **disk farm**, or even if the Internet goes wacky due to the latest hacker attack and you...

...While many readers will sympathize with the sentiment, even a cursory glance at government computer **usage** reveals that, in general, computer spending is directly proportional to government bloat.

In the real...at a ridiculously low .68 percent, according to WebSiteStory, a company that tracks Internet browser **usage**.

The truth: anybody literate enough to want to be on the Internet, or to write...

...systems together into one, coherent system.

The company launched SAA (System Application Architecture), which was **billed** as a set of interfaces designed to cross all IBM platforms from PC to mainframe. Digital raised the stakes with NAS (Network Application Support), which was **billed** as a set of interfaces designed to cross all platforms, regardless of vendor.

The problem pay for the PC (and for Internet **usage**) in return for a captive audience.

The idea certainly had some appeal with customers, and...

...PC customers got to keep their machines, but they're now being charged for Internet **usage**. The acquisition of Free-PC was the end of an idea whose time had never...

5/3,K/3 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01732210 03-83200

**Objects and organization**

Tibbetts, John; Bernstein, Barbara

Informationweek n709 PP: 242 Nov 16, 1998

ISSN: 8750-6874 JRNL CODE: IWK

WORD COUNT: 630

...TEXT: Options, Young Designers, Career Dressing, and ActiveWear, and each offers coordinated wardrobes of clothes and **accessories** . If, however, you just want to buy a white blouse, you need to look in...

...pieces of these projected objects are-like our white blouses spread all over the enterprise's **disk farms** , buried in larger applications, woven into complex chains of procedural programming, living under hundreds of...

...be mammoth vendor packages like PeopleSoft, SAP, and Oracle Financials, along with homegrown apps like **Billing** and Marketing Support. A large organization will typically have dozens of squares on the board...

...object practitioners call a "wrapper," through which all information and activity about employees can be **accessed** and modified. It is similar to those personal shoppers in upscale stores who collect blouses...

...present them to you to try on.

Through what machinery are these farflung legacy resources **accessed** ? In simple cases, the Employee object can get data directly from a database managed by...

5/3,K/4 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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07930971 Supplier Number: 65491069 (USE FORMAT 7 FOR FULLTEXT)  
**E-COMMERCE MANAGEMENT -- HOW TO GET THE MOST FROM A HOST -- Use this five-step plan to get the best deal from a Web hosting provider. (Industry Trend or Event)**

Mullich, Joe  
InternetWeek, p97  
Sept 25, 2000  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 2531

... firsthand. Jakubowski says look for an uninterrupted power supply, diesel generator, fire-suppression system and **access** -control system along with plenty of infrastructure redundancy.

If the hoster has the right hardware...

...Pascal Aguirre, an analyst at consultancy Renaissance Strategies. "Some companies are trying to provide broadcast **access** themselves and some are partnering for it."

This can lead to different quality of fulfillment...

...Business Services.

Consider it a good sign if the ISP provides historical data on monthly **accessibility** rates for the sites it hosts. The provider should know how to measure and quantify...via remote network monitoring. "Remote monitoring sees the Web site the way customers trying to **access** the site would see it," says Jakubowski. "Often it is impossible to tell from the inside if there is a Web site **accessibility** problem, making remote monitoring critical."

Plan For Problems

Harvey S. Jacobs, managing director of Jacobs...

...e-mail from a person who was assigned to handle all his company's service, **billing** and administrative problems-complete with a promise to make sure Jacobs would be routed directly...

...site security has three planks: physical, which safeguards against disasters and control over who has **access** to the provider's building; network, including firewalls and intrusion detection; and administrative.

A company...

...have a lot of discussion forums on your site? A hoster that has a large **disk farm** with a few fast machines might lack the necessary CPU the site requires. If you...control panel should do more than just configure your e-mail addresses and check your **billing** and personal data. It should provide you with the tools you need to completely control...

...ASPs, companies need to carefully balance their tactical requirements, such as time to market and **access** to technical resources and skills, with longer-term strategic goals, such as the desire to...

5/3,K/5 (Item 2 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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06941010 Supplier Number: 58614911 (USE FORMAT 7 FOR FULLTEXT)

**Movers and Shakers Eye the Millennium.(Industry Trend or Event)(Interview)**

Toigo, Jon William; Pike, Bill

Enterprise Systems Journal, v14, n12, p34

Dec, 1999

Language: English Record Type: Fulltext Abstract

Article Type: Interview

Document Type: Magazine/Journal; Trade

Word Count: 11896

... combination of internal intranets linked together via the world wide Internet. This capability provided ubiquitous **access** to information both within the corporation as well as across business -- while also providing consumer **access** to information and facilitating e-commerce capabilities.

Yogesh Gupta, Senior Vice President, Product Strategy, Computer...

...of awareness made it seem that, suddenly, anybody who could load a browser had global **access** to the world's information. We are still trying to fathom all the dimensions of...must provide leverage to maximize its existing investments in legacy systems and applications while extending **access** to the applications and information resources required for e-business. Some may argue that if...new front-end applications (e.g., e-commerce) with existing back-office systems (e.g., **billing**, supply-chain).

In the next five years, IS managers will struggle with the need to... never buy a computer that comes with a network today. Instead, storage capacity will be **accessed** via a plug in the wall. Treating storage as a manageable element of corporate infrastructure...overabundance of performance measurement metrics. Systems people collect every subtle nuance and permutation, filling entire **disk farms** with useless trivia. To a very large extent, much of the data is worthless stuff...overabundance of performance measurement metrics. Systems people collect every subtle nuance and permutation, filling entire **disk farms** with useless trivia. To a very large extent, much of the data is worthless stuff...

5/3,K/6 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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06793715 Supplier Number: 57442419 (USE FORMAT 7 FOR FULLTEXT)

**Web Hosting. (Industry Trend or Event)**

Machrone, Bill

PC Magazine, p212

Dec 1, 1999

Language: English Record Type: Fulltext Abstract

Document Type: Magazine/Journal; General Trade

Word Count: 2625

You maintain your own server and Internet connection at your site.

Pros: Full control, instant **access** to hardware and site; software and configuration flexibility.

Cons: Labor-intensive; requires technical expertise; high...

...housed at the Web host's site.

Pros: Full control, which may include security; unobstructed **access** to Internet connection, climate control, and power backup.

Cons: Increased maintenance costs, possibly including security expertise; increased server and software costs; no easy **access**.

Stephen Covey has 7 habits of highly effective people. The Music Man has 76 trombones...are very difficult for the hosting service. If a service is built around a huge **disk farm** and a few reasonably fast machines, it's probably adequate for serving up large numbers...

...forums are particularly demanding on host machines, because they need lots of memory and fast **access** to their discussion databases. If you plan a large, active discussion forum, find a vendor...

...example, CIHost, a host with a flair for self-promotion, appears to get its network **access** from Propagation.net, which in turn is served by megaprovider BBN Planet.

Using the Whois...should go up accordingly.

\* 15.Start slow before committing. Charges are often quoted monthly, then **billed** in larger increments. But discovering this usually requires human contact, not just a visit to...

...When you're happy, extend the term to receive the attendant discounts.

\* 16.Watch the **billing**. We signed up for 9NetAve's 30-day trial and were promptly **billed** for a year's service. When we complained, the company offered to cut the **billing** period to six months, then three. Instead we invoked the money-back guarantee. It took...

PRODUCT NAMES: \*4811522 (Internet **Access** Providers)

5/3,K/7 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05954408 Supplier Number: 53221017 (USE FORMAT 7 FOR FULLTEXT)

**Objects And Organization -- Switching To An Object Approach Requires Some Effort, But The Payoff Is Worth It. (Industry Trend or Event) (Column)**

InformationWeek, p242(1)

Nov 16, 1998

Language: English Record Type: Fulltext

Article Type: Column



Document Type: Magazine/Journal; Tabloid; General Trade  
Word Count: 634

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Options, Young Designers, Career Dressing, and ActiveWear, and each offers coordinated wardrobes of clothes and **accessories** . If, however, you just want to buy a white blouse, you need to look in...

... of these projected objects are-like our white blouses-spread all over the enterprise's **disk farms** , buried in larger applications, woven into complex chains of procedural programming, living under hundreds of...

...be mammoth vendor packages like PeopleSoft, SAP, and Oracle Financials, along with homegrown apps like **Billing** and Marketing Support. A large organization will typically have dozens of squares on the board...

...object practitioners call a "wrapper," through which all information and activity about employees can be **accessed** and modified. It is similar to those personal shoppers in upscale stores who collect blouses...

...them to you to try on.

Through what machinery are these far-flung legacy resources **accessed** ? In simple cases, the Employee object can get data directly from a database managed by...

5/3,K/8 (Item 5 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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04254162 Supplier Number: 46230099 (USE FORMAT 7 FOR FULLTEXT)

**Sun's Stroke: Thin Clients, Fat Servers**

CommunicationsWeek, pl2

March 18, 1996

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 1317

... Modeling Language], and the Java Database Connectivity [JDBC] interface, so that your Java applets can **access** any of the databases openly and availably. Now, people are trying to extend them, provide...

...desktop and, in a way, put a mainframe on every desk, giving everybody their own **disk farm** , backup and storage mechanism. But, in a company with 10,000 PCs, no two are... ✓

...and automatically dials this ISDN phone number to this server room and logs into the **billing** server to route you right to your file system on a file server and starts **billing** you for your time. To get to your mail, you have a big electronic-mail server in this room and similar servers for **access** to a corporate database or the Web or the Internet.

These very specialized servers will...Corp. and Lotus Development Corp. are going to have these big server environments that are **accessed** by thin Java clients with JDBC hooks.

CommWeek: Some of your competitors say the requirements...

5/3,K/9 (Item 6 from file: 16)

DIALOG(R)File 16:Gale Group PROMT(R)

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03045977 Supplier Number: 44143068 (USE FORMAT 7 FOR FULLTEXT)  
**HP, SGI ready opposing video-server architectures: Video-on-demand battle brewing**

Electronic Engineering Times, p1

Oct 4, 1993

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1303

... trial in Orlando, Fla., for Time Warner. In the trial, 4,000 homes will have **access** to 3,000 videos over an ATM (Asynchronous Transfer Mode) switched network. HP plans to...

...proprietary link to the Video Storage Engine. A second series 800 acts as a linked **billing** system. The Video Storage Engine will be connected by ATM or ADSL interface to an...

...much of it is taken from hard disks into the main system memory that users **access**. Challenger systems will be configured with between 500 Mbytes and 16 Gbytes of main memory for video-on-demand applications.

The system will **access** 200 to 300 Gbytes of video data on local hard-disk storage from a pool of perhaps 6 terabytes of data in shared RAID **disk farms** containing 500 or so videos. Another 2,500 videos will be archived on digital tape...

...competitors in the large central video-server market will rely on clustering technology and RAID **access** for video services. IBM is the only vendor with previous video experience, having begun Washington...

5/3,K/10 (Item 7 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

02151250 Supplier Number: 42794536 (USE FORMAT 7 FOR FULLTEXT)

**BIT BY BIT, SPLITTING IT APART**

VARbusiness, p85

March, 1992

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1633

... equipped with 50-MHz processors and tens of Gbytes of disk storage, and minicomputers support **disk farms** and I/O channels that were once the sole province of mainframes.

The resources available...

...are looking at splitting the datasets and applications over two or more servers to reduce **access** collisions and allow each server to operate at a level compatible with its horsepower. How...

...based on a single-server, multiclient model. Each of these LAN operating systems will allow **access** to other servers: It's not as though either Novell or Banyan customers are locking...in order to get there. The good news is that this almost guarantees continuing high **billable** hours for support and development for these VARs. The bad news is that the resources ...

...no signs of retreating from, an era of abundant computing resources.

Rather than machine cycles, **access** to data is the crucial issue for computing performance at the end of the twentieth century. Splitting data among several sites is a viable strategy for increasing user **access** to data, and peer-to-peer networking is far better at this than is client...

5/3,K/11 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2005 The Gale group. All rts. reserv.

03718329 SUPPLIER NUMBER: 12340851 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Utility's users need 'real' client/server system, not a label. (PC Week Soap Box) (Opinion) (Column)**  
Coffee, Peter  
PC Week, v9, n24, p96(1)  
June 15, 1992  
DOCUMENT TYPE: Column ISSN: 0740-1604 LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 553 LINE COUNT: 00044

... to produce a system for customer service representatives that can mix data from many platforms: **billing** data from 3090 mainframes, map information from a specialized graphics platform and so on. He...

...real client/server technology." By this he means more than merely putting data on a **disk farm**, with a SQL engine that can process SELECTs and JOINS in response to SQL commands...

...DESCRIPTORS: **Usage** ;

5/3,K/12 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

08553906 SUPPLIER NUMBER: 18118571 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Sun's stroke: thin clients, fat servers. (Interview with Sun Microsystems CEO Scott McNealey) (includes related article on Sun's corporate networking strategy) (Company Business and Marketing) (Interview)**  
Irsfeld, Mitch; Girishankar, Saroja  
CommunicationsWeek, n601, p12(2)  
March 18, 1996  
DOCUMENT TYPE: Interview ISSN: 0746-8121 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1738 LINE COUNT: 00141

...ABSTRACT: model is similar to Sun's X-terminal model but with increased efficiency and information **accessibility**. Sun's network computing model will be supported by a series of specialized servers instead...

...support consumers who perform complex computing tasks and who simply want E-mail, Internet and **access** to basic applications.

... Modeling Language), and the Java Database Connectivity (JDBC) interface, so that your Java applets can **access** any of the databases openly and availably. Now, people are trying to extend them, provide...  
...desktop and, in a way, put a mainframe on every desk, giving everybody their own **disk farm**, backup and storage mechanism. But, in a company with 10,000 PCs, no two are...

...and automatically dials this ISDN phone number to this server room and

logs into the **billing** server to route you right to your file system on a file server and starts **billing** you for your time. To get to your mail, you have a big electronic-mail server in this room and similar servers for **access** to a corporate database or the Web or the Internet.

These very specialized servers will...Corp. and Lotus Development Corp. are going to have these big server environments that are **accessed** by thin Java clients with JDBC hooks.

CommWeek: Some of your competitors say the requirements...

5/3,K/13 (Item 2 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

(c)2005 The Gale Group. All rts. reserv.

07520505 SUPPLIER NUMBER: 16237174 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Computer telephone integration is calling your enterprise. (Enterprise Computing)**

Spiegel, Leo

InfoWorld, v16, n37, p55(3)

Sept 12, 1994

ISSN: 0199-6649

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2907 LINE COUNT: 00240

... from Dataquest, a market research firm in San Jose, Calif.

"The phone is becoming the **access** point for vital corporate data," says John Landau, vice president of marketing for Dialogic Corp...

...including database managers, personal information managers, spreadsheets, and word processors, will benefit from gaining direct **access** to the telephone network due to the APIs and initiatives put forward by Novell and...

...will find this option particularly attractive for employees who bill phone time because unlike external **billing** machines, the application can be integrated with the PC database.

More advanced telephone control features can also be easily **accessed** by users through CTI.

Another technology, interactive voice response (IVR), links callers with a database...

...Inc., in San Diego. PhoneNotes, a combination of voice-processing software and hardware, lets users **access** Notes databases via the telephone. The telephone keypad can also be used to retrieve information... will be able to build or purchase core applications and use the server and associated **disk farms** as an enterprise resource," Landau says.

"Tomorrow's ideal server will support all of the...boards or external modems. A TAPI Service Provider Interface is a second API that offers **access** to telephone lines and switch services.

Applications written to either Microsoft API can take advantage...

5/3,K/14 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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07510800 SUPPLIER NUMBER: 15727351 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Intelligent networks: new technology, new opportunities. (computer networks)**

Goldberg, Lee

Electronic Design, v42, n16, p73(5)

Sylvia Keys

11-May-05 10:37 AM

August 8, 1994

ISSN: 0013-4872

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 4068

LINE COUNT: 00338

... of the century.

As 1994 draws to a close, most of North America will have **access** to the "Advanced Intelligent Network," AT&T's version of intelligent-network technology. Designed to...

...in parallel to the voice channels, and it was devoted exclusively to carrying routing and **billing** information between telephone switching exchanges. Initially, signaling was done using audio tones, but has been...

...to direct the call through the network. Along with address translation, the database provides the **billing** instructions that direct the toll to be charged to the receiving party.

Similar functions are...

...wired telephone, or even a network-based voice-mail system.

Because the call routing and **billing** is handled by programmable computers and not fixed relay logic, it's relatively easy to...providing new services such as voice messaging, e-mail, text-to-speech services, and database **access**.

NETWORK ELEMENTS, SYSTEMS

From a broad perspective, the telephone system is divided into two general...

...route them, while network systems handle control-related functions such as service control, service applications, **billing**, and capacity management.

Local exchanges connect a customer's equipment to the network through what...

...well as launch queries to centralized data bases for the purposes of call routing and **billing** instructions.

Signal transfer points (STPs) usually lie deeper within the network, functioning as high-capacity...

...300 calls per second. These units support regional and national services, such as routing and **billing** information for 800- and 900-number services. Alternate **billing** (credit card/calling card) services and special business services (e.g., virtual networks) also rely...

...the network via multiple SS7 or X.25 communication links. All CPUs share a common **disk farm** and a common interface to the signaling engineering and administration system that monitors and controls...

...can send and receive control information from the intelligent peripheral and perform call setup to **access** other network functions.

The current generation of intelligent peripherals are being used to perform tasks...will be able to offer more sophisticated services, such as video-on-demand and direct **access** to the Internet.

The architecture of the intelligent network also has been designed to facilitate...

...automated by system engineers. These engineers used relay logic to implement complex tasks--like random- **access** call switching and **billing** based on distance and connection time.

The tightly held control system mimicked the hierarchical command...  
...terms of bandwidth-minutes-per-dollar.

As previously mentioned, most of North America will have **access** to

AT&T's Advanced Intelligent Network, which is the company's version of intelligent...

...network, they can be employed either as gateways to other networks or as large, remote **disk farms** for centralized archiving and database management. Located at the periphery of the network, these privately...

...DESCRIPTORS: **Usage**

5/3,K/15 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

01687287 SUPPLIER NUMBER: 15519571 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Tiger gains on Oracle; Microsoft's video server may be paired with Sybase's authoring software. (Gain Momentum multimedia application development software)**

Ratcliffe, Mitch

Digital Media, v4, n1, p32(3)

June 8, 1994

ISSN: 1056-7038

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 2521

LINE COUNT: 00199

... must juggle each data stream independently. The Microsoft strategy focuses its innovations in providing multiple **access** points in a movie stored on a hard disk, while Oracle loads all video data into ram (random **access** memory) to allow the Media Server to pluck out bits of the movie randomly and...the calculations presented here do not account for the number of viewers that can simultaneously **access** the data on a server, nor the fact that the physical limits of a Tiger server will probably require that several such **disk farms** be in place to support a moderately large city. Then, there's the cost of...

...pause or navigate through a movie. At the same time, the database can track consumer **usage** of the system, and support transactional services like online shopping and messaging. TCI has invested...their banking transactions.

Tiger's greatest shortcoming is its lack of robust database features for **billing** and content administration systems. However, the Microsoft video software can co-exist on the same...

5/3,K/16 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

01632706 SUPPLIER NUMBER: 14770455 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Desires and dynamics. (aspects of telecommunications' future)**

RELease 1.0, v93, n11, p5(3)

Nov 22, 1993

ISSN: 1047-935X

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT

WORD COUNT: 2628

LINE COUNT: 00207

... video at its network control center on a mainframe or several servers -- plus a huge **disk farm**. The servers are directly connected to information providers' ...with their installed base of coax to the home. Most players own desirable assets, whether **billing** systems, media libraries or licensed radio frequencies. Combining them creatively is key. Phone companies will...

...to those required for 800-number portability, which occurred May 1 of this year.) Suppliers' **billing** would also get much more complex.

Finally, cable companies will have to play in the...

...a satellite is safely in orbit (not the easy part), everyone under its shadow has **access** : Potential subscribers need only go to a store to buy a dish and terminal unit...

5/3,K/17 (Item 3 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

(c) 2005 The Gale Group. All rts. reserv.

01593149 SUPPLIER NUMBER: 13667461 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**More for your money. (mainframe optimization) (includes related articles on the University of Wisconsin's use of Computer Associates' CA-ASM2 disk management system, the University of California's use of Sterling Software's AutoMan, and the New England's and Dean Witter's use of Programart's Strobe)**

Weston, Rusty

Corporate Computing, v2, n4, p130(20)

April, 1993

ISSN: 1065-8610

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 5695 LINE COUNT: 00442

... the aid of a loose confederation of products we call mainframe optimizers--performance monitors, direct- **access** storage device (DASD) optimizers, and database and telecommunications tools.

If this were the nineteenth century...had 6,000 secretaries, teachers, and school administrators tapping into its lone IBM 3090 mainframe. **Access** to student records was agonizingly slow, recalls Ronald K. Smith, director of technical support for...the school archives 87GB onto tape. In a small shop, you can't afford a **disk farm**, explains William Hinton, the storage manager. With our budget constraints, we can't handle more... ..the console operator that specifies what tape should be loaded. That gives users almost immediate **access** to all the information in the data center, wherever it resides.

It also makes better...each volume, AutoMan takes whatever actions Parsons programs it to do. For example, if the **billing** department has used 85 percent of its space, AutoMan can issue a warning, archive data...

5/3,K/18 (Item 1 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2005 WIPO/Univentio. All rts. reserv.

00861929 \*\*Image available\*\*

**SYSTEM AND METHOD OF VOICE RECOGNITION NEAR A WIRELINE NODE OF A NETWORK SUPPORTING CABLE TELEVISION AND/OR VIDEO DELIVERY**

**SYSTEME ET PROCEDE DE RECONNAISSANCE DE LA VOIX PLACES SUR UN NOEUD DE LIGNES FILAIRES UTILISEES POUR LA TELEVISION PAR CABLE ET/OU L'ACHEMINEMENT DE VIDEO**

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Sylvia Keys

11-May-05 10:37 AM

Legal Representative:

GLENN Michael (et al) (agent), Glenn Patent Group, 3475 Edison Way, Suite L., Menlo Park, CA 94025, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200195625 A1 20011213 (WO 0195625)

Application: WO 2001US14760 20010507 (PCT/WO US0114760)

Priority Application: US 2000210440 20000608; US 2001785375 20010216

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB  
GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA  
MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA  
UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 32127

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... issued June 27, 20003 2o Basore, et al, Voice activated device and method for providing **access** ro remotely retrieved data, U.S. Patent 5,752,232, (inverted exclamation mark)ssued May...

...support. Natural language voice

recognition is currently being used in high end systems, such as **billing**

applications for utility companies and the New York Stock Exchange, because

of its ability to...fast, efficient arrays of

microprocessors, many of which may possess a frame buffer in locally **accessible** memory. Each microprocessor transiates the frame buffer into an MPEG stream. Severa(inverted exclamation mark...top box 1 1 1 0; io Figure 20C depicts a block diagram further depicting **accessibly** coupled 1162

memory 1160 as shown in Figures 20A and 20113;

Figure 21 depicts a...

...server component refers to at least a gateway, server array, server computer, database engine, or **disk farm** .

As used herein, gateway refers to at least one of the following: A gateway

may...may further provide an echo-canceling capability in receiving voice signals within the area of **usage** .

Note that there may be more than one remote control unit 1000 with one or ...for existing applications, such

26

as Interactive Program Guides, Video On Demand (VOD) services or **access** to the Internet or World Wide Web.

Near network system initialization time, applications such as Video On Demand or Interactive Program Guides, that request service **access** with the speech recognition services may be required first to register with the AVIPU system...until a



complete speech sample has been received. This approach to CRC calculation cuts memory **accesses** in half compared to first storing the string, then making a second pass to generate...empty memory from mass storage. Mass storage may include, but is not limited to, a **disk**, **disk farm**, or Redundant Array of Independent Disks (RAID), a high io bandwidth **disk farm**. If not, then the least-recently-used grammar entry may be discarded, and the new...

...the new speech sample are loaded into the vacated cache block. During the relatively long **access** times needed to load a new set of user site parameters from mass storage (and...

...the speech processor. This minimizes speech processor delay for processing other speech requests during disk **accesses**. Instead, the speech processor may process other speech samples associated with user sites whose parameters...

...requires that both the proper grammar and the proper user site parameter information be simultaneously **accessible** by the speech processor.

The possibility exists in which a recently-loaded grammar or speech...be maintained in the internal (inverted exclamation mark) representation of the grammar, thereby providing direct **access** to target names. This further enhances system performance.

Note that as used herein, similarity databases...S. Plex-node 0,1 may couple 3142 to RAID 3130 subsystem, providing high-speed **access** to a high capacity **disk farm**. Various signals 1512 to 1518 may be generated by various plex-nodes. Note that because...

...high speed interconnect bus B1, a low speed interconnect bus PCI and a local memory **access** bus R. Each CPU may include at least two processors. Each processor may be an...

...are locally coupled via at least one of the interconnect buses. Each CPU possesses locally **accessible** memory via an R bus. Each CPU may further **access** locally **accessible** memory via its own R bus. The R bus **accessed** memory may include DDR SDRAM (Double Data Rate Synchronous DRAM).

Three serial (inverted exclamation mark)...

...channels support a gigabit/second bidirectional transfer rates. The DDR DRAMs support M gigabyte/second **access** rates. This system provides 64\*K billion integer operations, 64\*L billion floating point operations...

...through the high speed serial channels, as well as 64\*M gigabytes/second local memory **access**. By decoupling the tasks running on each processor, making them independent and concurrent, this...the speech processing system. Implementations of these operations as program

66 The method of Claim 54,  
wherein...

5/3,K/19 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00847391 \*\*Image available\*\*

**SYSTEM AND METHOD FOR ON-NETWORK STORAGE SERVICES**  
**SYSTEME ET PROCEDE DE SERVICES DE STOCKAGE SUR RESEAU**

Patent Applicant/Assignee:

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17th Street, Denver, CO 80202, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200180014 A2-A3 20011025 (WO 0180014)

Application: WO 2001US12310 20010416 (PCT/WO US0112310)

Priority Application: US 2000197490 20000417

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 8548

Fulltext Availability:

Detailed Description

Claims

English Abstract

...to the network. Units of data are stored in one or more data storage  
devices **accessible** to the intermediary server. Each storage request is  
associated with a token representing the request...

...specific location information corresponding to the request associated  
with the received token. The intermediary server **accesses** the data  
storage mechanism using the specific location information to retrieve  
data at the specific...

French Abstract

...Des unites de donnees sont stockees dans au moins un dispositif de  
stockage de donnees **accessible** au serveur intermediaire. Chaque demande  
de stockage est associee a un jeton representant la demande...

## Detailed Description

### ... THE INVENTION

#### Field of the Invention

The present invention relates, in general, to network information **access** and, more particularly, to software, systems and methods for providing database services in a coordinated...

### ...networks

coupled together by a web of interconnections using standardized communications protocols. While most Internet **access** is currently performed

5 using conventional personal computers and workstations, the variety of devices that **access** the Internet is growing quickly and expected to continue to grow. It is expected that...

### ...by little or no mass storage

capability. In such devices there is increased need to **access** external(inverted exclamation mark) mass storage such as network storage devices to **access** information needed to perform their functions.

The Internet is characterized by its vast reach as a result of its wide and increasing availability and easy **access** protocols. Unfortunately, the ubiquitous nature of the Internet results in variable bandwidth and quality of...

### ...Internet, computing appliances that can

potentially act as interfaces to a database have potentially ubiquitous **access** to this stored database information. The Internet promises to enable ready

**access** from a wide variety of computing appliances at a wide variety of locations. Typically, when...

### ...requests for those materials. This enables the administering server to regulate, control, and charge for **access** to the data.

3 0 Managing **access** to data files often involves a disparity between the resources required to perform the administrative...

### ...as receiving requests, locating files, recording metadata

describing who, when and where the files were **accessed**, account management and **billing** tend to involve relatively small volumes of data that are efficiently handled by a processor with fast **access** to an administrative database. In contrast, the actual data file delivery involves larger data units...

### ...coupling between the services that

manage the data and the data store itself restricts the **accessibility** of the data. This results in data stores being located behind a database management engine...

### ...tasks associated with data storage and management.

Beyond varying functional requirements for data storage and **access**, there are increasing political, security, legislative and availability criteria that 2 0 influence where certain...

### ...example, if 2 5 the data owner wished to make data available for a per-**access** charge, the

...communicating with the  
intermediary servers;  
processes within the intermediary server responsive to a received data  
**access** request for communicating with the storage server to obtain  
knowledge about the location of requested...

...are configured as a storage area network.

7 The system of claim 1 wherein the **access** request is  
represented by a token.

8 The system of claim 1 wherein the processes...

...coupled to the network;  
storing units of data in one or more data storage devices **accessible** to  
the intermediary server;  
associating each storage request with a token representing the request...  
...5 corresponding to the request associated with the received token;  
causing the intermediary server to **access** the data storage mechanism  
using the specific location information to retrieve data at the specific  
...

5/3,K/20 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00837831 \*\*Image available\*\*

**ELECTRONIC COMMERCE AND INFORMATION CONTROL SYSTEM**

**SYSTEME ET PROCEDES DE COMMERCE ELECTRONIQUE PRESENTANT DES INFORMATIONS  
GLOBALES ACCESSIBLES ET DES INFORMATIONS ET CONTROLES SPECIFIQUES  
DISPONIBLES**

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O'BRYANT David W (agent), Morris, Bateman, O'Bryant & Compagni, P.C., 136  
South Main Street, Suite 700, Salt Lake City, UT 84101, US,

Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US8810 20010320 (PCT/WO US0108810)

Priority Application: US 2000528504 20000320

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English  
Fulltext Word Count: 9905

**SYSTEME ET PROCEDES DE COMMERCE ELECTRONIQUE PRESENTANT DES INFORMATIONS  
GLOBALES ACCESSIBLES ET DES INFORMATIONS ET CONTROLES SPECIFIQUES  
DISPONIBLES**

Fulltext Availability:  
Detailed Description  
Claims

Detailed Description

ELECTRONIC COMMERCE SYSTEM AND METHODS WITH GLOBAL  
INFORMATION **ACCESSIBLE** AND WITH SPECIFIC INFORMATION AND  
CONTROL AVAILABLE  
BACKGROUND

The Field of the Invention  
This invention...

Claim

... global communications network may be the Internet, the Internet 2 or any other large public- **access** computer network. A method for providing electronic commerce over a global communications network may include...

...the commission from a purchase price of each sale The first company may be regularly **billed** for the commission. Referring to Figure 1. as shown, generally, all embodiment includes a server...known in the art. Recently several companies have introduced cellular phones capable of I 0 **accessing** the Internet. These phones are commonly referred to as web phones 22c. A consumer may...the server system 20 may also be connected to a gateway computer 36 that alloNvs **access** to an intranet 38. The intranet 38 may be the intranet 38 of' a particular...

...Bv being in communication with the intranet 38. users ofthe intranet 38 will typically have **access** to the server system 20, Also shown in Figure 3 is a LAN 40. The...

...from the store computers 24 in a database 48. A master database computer 50 has **access** to all the databases 48, database I 48a through N 48c. Accordingly, to **access** information from store computers 24. a server computer 30 may query the database master 50. The database master computer 50 may then query the plurality of database computers 48 to **access** the desired 30 information  
I I  
A store master computer 52 may also be used...A Plurality of web servers 31 are in electronic communication with a database server and **disk farm** 54. The database server and **disk farm** 54 stores various pieces 1 5 of information being received from and sent to the...

...client software 76 to communicate with the server computer 30. The client software 76 may **access** various other data/software components when used, such as, for example, configuration data 78, client...

...browsers can use and call libraries 80 and plug-ins 82. In addition, a browser **accesses** configuration 78 to configure itself for the particular user. In addition. the browser may store...In addition, other records may be used with the embodiments herein for the storing and **accessing** of data.  
Figure I I Illustrates a flow diagram of the general steps involved in embodiments disclosed herein. In embodiments disclosed herein, a consumer

**accesses** the server system 20 to search for and/or purchase consumer items. @

When connecting to...database(s) 48 regarding the selection data. In embodiments disclosed herein, this step may include **accessing** one or more databases

48 at one or more locations through a database front end...

...in practicing an embodiment using the World Wide Web. A consumer

17

inav first **access** 120 a search page. Search pages are well known in the art and

examples of...In some embodiments., pickup Information and the like may already be stored in a database **accessible** by the I/O server

computer(s). In these embodiments, the server computer(s) may **access** the database for this information and then send it to the consumer.

The notification may...

...160. Consumers may browse the web and visit a particular store's web site 158. **Accessible** via the store's web site 158 may be an enabling system 20 that enables...

...information. One or more database servers 54 may be used for storing, searching and/or **accessing** the data of the embodiment. The one or more database servers 54 may be used system 20 may **access** /modify an , data in tile local database I7 6 and may also record transactions that ...

...product search 180. III accomplishing the product search 180, information from multiple retailers 182 is **accessed** and searched. As shown, each retailer 182 inav have one or more retail outlets...

...locations. III the embodiment of Figure 17, not only is Information from multiple retailers 182 **accessed** and searched, but information from multiple outlets 1184' of each retailer I82 is **accessed** and searched. Thus. information from a number of electronic sources and from a rumber of separate physical store locations is **accessed** and searched to produce search results 186.

Once the consumer has viewed the search...each sale.

1

15 The method of claim 13 further comprising the step of regularly **billing** the first company for the commission.

28

6 A method for facilitating commerce for a...  
...of each sale.

22 The iriethod of claim 21 further comprising the step of regularly **billing** the first company for the commission.

23 The method of claim 21 further comprising the...

5/3,K/21 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00801743 \*\*Image available\*\*

**SYSTEMS AND METHODS FOR GENERATING HIGHLY RESPONSIVE PROSPECT LISTS.**

**SYSTEMES ET PROCEDES DE GENERATION DE LISTES DE CLIENTS TRES RECEPTIFS.**

Sylvia Keys

11-May-05 10:37 AM

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Patent and Priority Information (Country, Number, Date):

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2000662364 20000913; US 2000662429 20000913; US 2000662362 20000913

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

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Detailed Description

Claims

Detailed Description

... generated for each of the other list purchasers. The first list  
purchaser may be provided **access** to a targeted list of prospective  
customers, including at least a subset of the successful...prospect list  
identified for the second list purchaser. The first list purchaser may be  
provided **access** to a targeted list of prospective customers including  
one or more prospective customers from the...

...of prospective customers for the first list purchaser. The first list  
purchaser may be provided **access** to a targeted list of prospective  
customers including one or more prospective customers from the...

...service according to the present invention includes a server computer  
hosting a prospect list service **accessible** via client computers to a  
plurality of list purchasers and a database of prospect lists. The  
prospect list service includes a user interface comprising controls  
whereby a list purchaser can **access** information concerning prospect  
lists stored in the database. The prospect list service is preferably  
available via a computer network to assist a first list purchaser in  
generating and **accessing** a list of prospective customers based on  
previously successful lists of prospective customers generated for...

...may be available via the computer network to assist a list purchaser in  
generating and **accessing** a list of prospective customers based on at

purchaser.

25 The method of claim 20, wherein the step of providing **access** to the first list purchaser includes distributing the targeted list of prospective customers to a...

...the computer database, a successful prospect list identified for the second list purchaser, and provide **access** to a targeted list of prospective customers, including one or more prospective customers from the...

...customers from the successful list of prospective customers for the first list purchaser; and providing **access** to a targeted list of prospective customers, including one or more prospective customers from the...

...of prospective customers. 20 38. The method of claim 33, wherein the step of providing **access** to the first list purchaser includes distributing the targeted list of prospective customers to the first list purchaser.

39 The method of claim 33, wherein the step of providing **access** to the first list purchaser includes distributing the targeted list of prospective customers to a...

...customers from the successful list of prospective customers for the first list purchaser; and provide **access** to a targeted list of prospective customers, including one or more prospective customers ...network interface for connecting the computer system to a computer network, the computer system being **accessible** over the computer network via client computers to a plurality of list purchasers, means for providing a user interface comprising controls whereby a list purchaser can **access** information concerning prospect lists stored in the database, and means for generating a list of...

5/3,K/22 (Item 5 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00800217 \*\*Image available\*\*

**SYSTEM AND METHOD FOR FACILITATING INTELLIGENT NETWORK CALL PROCESSING USING A CALL CONTEXT DATABASE**

**SYSTEME ET PROCEDE POUR FACILITER LE TRAITEMENT DES APPELS DANS UN RESEAU INTELLIGENT AU MOYEN D'UNE BASE DE DONNEES CONTEXTUELLES D'APPELS**

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2000US41777 20001101 (PCT/WO US0041777)

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LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

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Detailed Description

Claims

English Abstract

...is coupled to the call context database (102). The network (100) includes and involves an **access** network element (110, 112, 116, 118) capable of receiving a call, generating first call context...  
...104, 106, 108, 114) that are coupled to the call context database (102) and the **access** network element (110, 112, 116, 118). Each network element is capable of receiving the call and/or data related to the call and the network call identifier from the network **access** element, generating second call context data in the call context database, transmitting the network call...

Detailed Description

... passing collections of call context data among network elements has further resulted in a bandwidth **usage** problem associated with moving large amounts of call context data from one network element to...  
...context data in relation to the centralized call context database. The call context database is **accessible** by a network element in real-time during a call based on a network call identifier that is generated and assigned by an **access** network element (e.g., an **access** switch that Initially receives a call) to each call. As a call is processed within...  
...element to network element. Each network element need only possess the network call identifier to **access** the centralized call context database to obtain some or all context data related to a...  
...network that is coupled to the call context database.

The network includes and involves an **access** network element capable of receiving a call, generating first call context data and a network...  
...plurality of network elements that are coupled to the call

data.

31 The method according to claim 31, wherein said management function is a **billing** operation related to said call.

32 The method according to claim 23, further comprising the step of **accessing** said call context database during said call to perform a management function related to said...

...processing calls in a telecommunications network, comprising the steps of.  
receiving a call at an **access** network element coupled to said telecommunications network;  
generating first call context data and a network...

...1 1 at network element, receiving said call and said network call identifier from said **access** network element;  
generating second call context data related to said call;  
storing said second call...

...telephone network; and  
a management system coupled to said call context database and operative to **access** said call context database during said call, to retrieve  
said call context data from said...

...management operation.

43 The system according to claim 43, wherein said management operation is a **billing** operation related to a set of calls being processed within said telephone network.

44 The...

...calls being processed by  
network elements within said telephone network in a call context database:  
**accessing** said call context database during said calls;  
retrieving said call context data from said call...

...10 operation.

47 The method according to claim 47, wherein said management operation is a **billing** operation related to a set of

5/3,K/23 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00787027 \*\*Image available\*\*

**METHOD AND SYSTEM FOR ACQUIRING PROSPECT LISTS OVER A COMPUTER NETWORK  
PROCEDE ET SYSTEME POUR L'ACQUISITION DE LISTES DE CLIENTS POTENTIELS SUR  
UN RESEAU INFORMATIQUE**

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Square, Boston, MA 02109, US,  
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Designated States:  
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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

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Detailed Description

Claims

Detailed Description

... implementing a computerized prospect list service includes a server computer hosting a prospect list service **accessible** via client systems to a plurality of prospect list managers and a plurality of list... require much iteration. Some companies, referred to as "online aggregators", provide list purchasers with immediate **access** to prospect lists through the Internet. Two examples of online aggregators are MySoftware (<http://www...in> offering prospect lists for sale and to assist list purchasers in selecting, purchasing, and **accessing** highly targeted lists of prospective customers.

The method and system of acquiring prospect lists of the present invention provides an **accessible**, efficient and flexible process for receiving from list managers a plurality of prospect lists, in...

...modify and remove prospect lists from the database through an interface designed to be easily **accessible** through a computer network such as the Internet. The list acquisition method and system can...in a catalog of prospective customer lists available on the database. The catalog can be **accessible** over the computer network via client systems to a plurality of list purchasers.

1 5...

...with a further aspect of the present invention, the list acquisition method can include determining **usage** instructions for the customer list. **Usage** instructions control the distribution and use of the customer list by a purchaser of the list from the database. For example, **usage** instructions can restrict the purchase of the customer list from the database to specific list...

...list is to be delivered to a third party other than the list purchaser. The **usage** instructions for the customer list can be received from the list manager of the prospect...

...service according to the present invention includes a server computer hosting a prospect list service **accessible** via client systems to a plurality of prospect list managers and a plurality of list...a preferred embodiment of a server;  
Figure 3 is a flowchart illustrating a method for **accessing** the prospect list service of the present invention;  
Figures 4A-4B are flowcharts illustrating a...The term "list purchaser" refers to any person, business, or other entity interested in acquiring **access** to a list of potential customers. A list purchaser can be, for example, a marketer...program, such as Microsoft Internet Explorer or Netscape Navigator, to provide a user interface for **access** to the Internet 110. Although the personal computer is a typical client 102...server.

Such servers may further include one or more mass storage devices such as a **disk farm** or a redundant array of independent disk ("RAID") system for additional storage and data integrity...

...the Internet service providers 108 may also include any computer system which can provide Internet **access** to a client 102. Of course, the Internet service providers 108 are optional, and in some cases, the clients 102 may have direct **access** to the Internet 110 through a dedicated DSL service, ISDN leased lines, TI lines...simplify Internet addressing, the Domain Name System ("DNS") was created. The DNS allows users to **access** Internet resources with a simpler alphanumeric naming system. A DNS name consists of a series...

...com" corresponds to a particular IP address. When a domain name is used, the computer **accesses** a DNS server to obtain the explicit four-byte IP address.

To further define the...

...the resource type "http" which indicates that the hypertext transfer protocol should be used to **access** the document. Other common resource types include "ftp" (file transmission protocol), "mailto" (send electronic mail...to any combination of servers described above that include a presentation server 200 for providing **access** to pages by the clients 102. The term "site," as used herein, is intended to ...pages sharing a common domain name address, or dynamically generated by a common host, or **accessible** through a common host (i.e., a particular page may be maintained on or generated...

...to the network 110, thus permitting more than one of the clients 102 to **access** the site at the same time. In one embodiment, the presentation server 200 comprises a...

...objects within a page, along with templates used for dynamic page creation.

A client 102 **accessing** an address hosted by the presentation server 200 will receive a page from the presentation...

...types of data to be included in a responsive page. It will be appreciated that **accessing** a page is more complex in practice, and includes, for example, a DNS request from...implemented using pre-configured e-commerce software, to provide back-end functionality including order processing, **billing**, inventory management, financial transactions, shipping instructions, and the like. The e-commerce

69 The system of claim 66, wherein the **usage** instructions restrict the number of times a submitted prospect list can be used by a list purchaser.

70 The system of claim 66, wherein the **usage** instructions specify that a submitted prospect list is to be delivered to a third party...

5/3,K/24 (Item 7 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00787026 \*\*Image available\*\*

**METHOD AND SYSTEM FOR STORING PROSPECT LISTS IN A COMPUTER DATABASE  
PROCEDE ET SYSTEME DE STOCKAGE DE LISTES DE PROSPECTION DANS UNE BASE DE  
DONNEES INFORMATIQUE**

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Priority Application: US 99153597 19990913; US 99153592 19990913

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ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

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Fulltext Availability:

Detailed Description

Claims

French Abstract

...un service de listes de prospection informatise inclut un serveur  
hebergeant des listes de prospection **accessibles** a partir d'ordinateurs  
clients a plusieurs gestionnaires de listes et plusieurs acquereurs de  
listes, ainsi qu'une base de donnees d'information concernant des listes  
de prospection **accessibles** a partir de plusieurs gestionnaires de  
listes. Le service de listes de prospection comprend une...

Detailed Description

... require much iteration. Some companies, referred to as "online  
aggregators", provide list purchasers with immediate **access** to prospect  
lists through the

Internet. Two examples of online aggregators are MySoftware (http://www...service according to the present invention includes a server computer hosting a prospect list service **accessible** via client computers to a plurality of prospect list managers and a plurality of list...

...includes a user interface having controls whereby a list manager or a list purchaser can **access** information concerning prospect lists stored in the database. The prospect list service is available via...program, such as Microsoft Internet Explorer or Netscape Navigator, to provide a user interface for **access** to the Internet I/O. Although the personal computer is a typical client 102...server.

Such servers may further include one or more mass storage devices such as a **disk farm** or a redundant array of independent disk ("RAID") system for additional storage and data integrity...

...the Internet service providers 108 may also include any computer system which can provide Internet **access** to a client 102. Of course, the Internet service providers 108 are optional, and in some cases, the clients 102 may have direct **access** to the Internet I/O through a dedicated DSL service, ISDN leased lines, T1...to any combination of servers described above that include a presentation server 200 for providing **access** to pages by the clients 102. The term "site," as used herein, is intended to...

...pages sharing a common domain name address, or dynamically generated by a common host, or **accessible** through a common host (i.e., a particular page may be maintained on or generated...

...to the network I/O, thus permitting more than one of the clients 102 to **access** the site at the same time. In one embodiment, the presentation server 200 comprises a...objects within a page, along with templates used for dynamic page creation.

A client 102 **accessing** an address hosted by the presentation server 200 will receive a page from the presentation...

...types of data to be included in a responsive page. It will be appreciated that **accessing** a page is more complex in practice, and includes, for example, a DNS request from...

...implemented using pre-configured e-commerce software, to provide back-end functionality including order processing, **billing**, inventory management, financial transactions, shipping instructions, and the like. The e-commerce software running on invention provides an **accessible**, efficient and flexible process for receiving a plurality of prospect lists, in a 15...

...client system 102 over the computer network I/O.

Figure 3 shows a method for **accessing** the prospect list service hosted by a server, such as a server 104 illustrated in...

...the system, step 314. The prospect list system is preferably password protected to prevent unauthorized **access** to the prospect list system over the computer network I/O.

Generally, the user ID...

...316. Upon verification of the user ID and password combination, the list

a server computer hosting a prospect list service **accessible** via client computers to a plurality of prospect list managers and a plurality of list...

...comprising controls whereby at least one of a list manager and a list purchaser can **access** information concerning prospect lists stored in the database, the prospect list service being available via...

5/3,K/25 (Item 8 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00785174 \*\*Image available\*\*

**AN ON-SCREEN BUYERS GUIDE FOR USE IN A BROADCAST PROGRAMMING NETWORK  
GUIDE POUR ACHETEURS A L'ECRAN UTILISE DANS UN RESEAU DE PROGRAMMATION DE  
DIFFUSION**

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Patent and Priority Information (Country, Number, Date):

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Detailed Description

Detailed Description

... inband data path (IDP) and an out-of-band data path (ODP) . DHCTs can then **access** the BFS in much the same way that a PC **accesses** a hard drive.

The IDP is a 27 Mbps data channel that the DHCTs tune...

...loading a new application on the DHCT as well as in any situation where fast **access** to the BFS is required. The IDP is one-way; no programming content can be...

...the IDP

data is being read.

The ODP is a data channel that can be **accessed** while programming content is being sent to the DHCT. The two components that make up...

...a certain key on the television remote control upon seeing an icon during programming and **access** an electronic buying guide with a purchase screen for products that are related to that...

...as in the HEDS) in a list that is personalized for the particular user and **accessible** so the personalized list can be retrieved at a later time by the user. This **accessible** and personalized list in essence functions as a persistent shopping cart containing the user's...

...server. When the user makes an input in response to the icon, further information is **accessed** from a memory for display. The icon and the information in memory are preferably decoupled such that the information can be modified separately, preferably in a manner that is **accessible** to the information provider. Another feature of the system of the present invention is the...the order can be processed by the system, the user's credit card may be **billed**, inventory may be updated, and the order may then be forwarded to a warehouse for...

...be processed by the system and then forwarded to an appropriate third-party vendor for **billing** and fulfillment. In the latter instance, periodic status updates on the order may be provided...

...applications provided by third party vendors and running on STB 18. The viewer can thus **access** the application via a remote control button while watching TV. The term "set top box..."

...such as Microsoft Message Queue (MSMQ) .

CAS 16 utilizes at least one Ethernet card to **access** HEDS 14 and at least one asynchronous transfer mode (ATM) card to **access** DCN 26 via an ATM switch, such as a Xylan ATM switch. The system can have one more CAS 16 than is needed to handle **usage** so that in the event of a failure of one CAS, the overall system will...the message queuing functionality; and database process 204, which processes client requests and provides database **access** .

7

SUBSTITUTE SHEET (RULE 26)

Socket server process 200 has at least two functions: a...

...Oracle RDBMS. The use of an RDBMS is desirable because an RDBMS allows for scalable **access** to large amounts of data. HEDS 14 preferably has at least one Ethernet card to...

...operation.

Referring to Figure 3, database program 216 submits requests to REDS 14 via remote **access** software 302, such as Oracle SQL\*NET. The requests include information for directing REDS 14...

...credit card data, pass codes, multiple user profiles and specific transaction information; and an MSO **billing** system, which provides household



specific information including name, address, telephone number, and an unique identifier...

...CCP server 26 can be a large, highly available UNIX based server with a separate **disk farm** and an RDBMS. Scheduling system 30 can be a UNIX based server with an RDBMS...

...software package. Data warehouse 34 can be a large UNIX based server with a separate **disk farm** and an RDBMS. Each reporting system can be a Windows NT workstation. CCP 24 may...CTPs 22.

General ledger system 32 can record all of the commerce control network's **billable** transactions downloaded from the CCP servers 26, and then can aggregate transaction information on a...

...Favorites" list) that is stored in the CTP,, such that the personalized list can be **accessed** at another time. By selecting another button, the user can enter the electronic buying guide...

5/3,K/26 (Item 9 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00783678 \*\*Image available\*\*  
**AN INTERFACE FOR PURCHASING PRODUCTS IN A BROADCAST PROGRAMMING NETWORK**  
**INTERFACE PERMETTANT D'ACHETER DES PRODUITS DANS UN RESEAU DE PROGRAMMATION**  
**D'EMISSIONS**

Patent Applicant/Assignee:

COMMERCE TV CORPORATION, 325 Wood Road, Braintree, MA 02184, US, US  
(Residence), US (Nationality)

Inventor(s):

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Legal Representative:

STADNICKI Alfred (agent), Fifth Floor, 1146 Nineteenth Street, NW,  
Washington, DC 20036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117261 A1 20010308 (WO 0117261)

Application: WO 2000US23572 20000828 (PCT/WO US0023572)

Priority Application: US 99384182 19990827; US 2000645601 20000825

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 7773

Fulltext Availability:

Detailed Description

Detailed Description

... as a

significant interactive medium for entertainment, communications,

research, education and e-commerce. Although Internet **access** has historically required a personal computer, it may be desirable for consumers to receive electronic...

...inband data path (IDP) and an out-of-band data path (ODP) . DHCTS can then **access** the BFS in much the same way that a PC **accesses** a hard drive.

The IDP is a 27 Mbps data channel that the DHCTs tune...  
...loading a new application on the DHCT as well as  
in any situation where fast **access** to the BFS is required. The IDP is one-way; no programming content can be...

...the IDP  
data is being read.

The ODP is a data channel that can be **accessed** while programming content is being sent to the DHCT. The two components that make up and **access** an electronic buying guide with a purchase screen for products that are related to that...

...as in the HEDS) in a list that is  
personalized for the particular user and **accessible** so the  
personalized list can be retrieved at a later time by the user.

This **accessible** and personalized list in essence functions as a persistent shopping cart containing the user's...

...server. When the user  
makes an input in response to the icon, further information is  
**accessed** from a memory for display. The icon and the information in  
memory are preferably decoupled such that the information can be  
modified separately, preferably in a manner that is **accessible** to  
the information provider.

Another feature of the system of the present invention is the...

...the  
order can be processed by the system, the user's credit card may be  
**billed** , inventory may be updated, and the order may then be  
forwarded to a warehouse for...

...be processed by the system and  
then forwarded to an appropriate third-party vendor for **billing** and  
fulfillment. In the latter instance, periodic status updates on the  
order may be provided...applications  
provided by third party vendors and running on STB 18. The viewer  
can thus **access** the application via a remote control button while  
watching TV. The term "set top box..."

...such as Microsoft Message Queue (MSMQ) .

CAS 16 utilizes at least one Ethernet card to **access** HEDS 14 and at  
least one asynchronous transfer mode (ATM) card to **access** DCN 26  
via an ATM switch, such as a Xylan ATM switch. The system can have  
one more CAS 16 than is needed to handle **usage** so that in the event  
of a failure of one CAS, the overall system will...

...the message queuing functionality; and database process 204, which  
processes client requests and provides database **access** .

7

SUBSTITUTE SHEET (RULE 26)

Socket server process 200 has at least two functions: a...

...Oracle RDBMS. The use of an RDBMS is desirable because an RDBMS allows for scalable **access** to large amounts of data. HEDS 14 preferably has at least one Ethernet card to...

...operation.

Referring to Figure 3, database program 216 submits requests to REDS 14 via remote **access** software 302, such as Oracle SQL\*NET. The requests include information for directing REDS 14...credit card data, pass codes, multiple user profiles and specific transaction information; and an MSO **billing** system, which provides household specific information including name, address, telephone number, and an unique identifier...

...CCP server 26 can be a large, highly available UNIX based server with a separate **disk farm** and an RDBMS. Scheduling system 30 can be a UNIX based server with an RDBMS...

...software package. Data warehouse 34 can be a large UNIX based server with a separate **disk farm** and an RDBMS.

Each reporting system can be a Windows NT workstation. CCP 24 may...

...CTPs 22,  
General ledger system 32 can record all of the commerce control network's **billable** transactions downloaded from the CCP servers 26, and then can aggregate transaction information on a... Favorites" list) that is stored in the CTP, such that the personalized list can be **accessed** at another time. By selecting another button, the user can enter the electronic buying guide...

5/3,K/27 (Item 10 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00783677 \*\*Image available\*\*

**AN INTERFACE FOR PURCHASING PRODUCTS IN A BROADCAST PROGRAMMING NETWORK**  
**INTERFACE PERMETTANT D'ACHETER DES PRODUITS PAR UN RESEAU DE RADIODIFFUSION**

Patent Applicant/Assignee:

COMMERCE TV CORPORATION, 325 Wood Road, Braintree, MA 02184, US, US  
(Residence), US (Nationality)

Inventor(s):

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CAMPBELL Colin P, 60 Robinwood Road, Norwood, MA 02062, US,

Legal Representative:

STADNICKI Alfred (agent), Fifth Floor, 1146 Nineteenth Street, NW,  
Washington, DC 20036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117260 A1 20010308 (WO 0117260)

Application: WO 2000US23571 20000828 (PCT/WO US0023571)

Sylvia Keys

11-May-05 10:37 AM

Priority Application: US 99384182 19990827; US 2000645600 20000825  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 8082

Fulltext Availability:

Detailed Description

Detailed Description

... as a significant interactive medium for entertainment, communications, research, education and e-commerce.

Although Internet **access** has historically required a personal computer, it may be desirable for consumers to receive electronic...

...inband data path (IDP) and an out-of-band data path (ODP). DHCTs can then **access** the BFS in much the same way that a PC **accesses** a hard drive.

The IDP is a 27 Mbps data channel that the DHCTs tune...

...loading a new application on the DHCT as well as in any situation where fast **access** to the BFS is required. The IDP is one-way; no programming content can be...

...the IDP data is being read.

The ODP is a data channel that can be **accessed** while programming content is being sent to the DHCT. The two components that make up...

...a certain key on the television remote control upon seeing an icon during programming and **access** an electronic buying guide with ...in the HEDS) in a list

3

that is personalized for the particular user and **accessible** so the personalized list can be retrieved at a later time by the user. This **accessible** and personalized list in essence functions as a persistent shopping cart containing the user's...

...server. When the user makes an input in response to the icon, further information is **accessed** from a memory for display. The icon and the information in memory are preferably decoupled such that the information can be modified separately, preferably in a manner that is **accessible** to the information provider.

Another feature of the system of the present invention is the...

...the order can be processed by the system, the user's credit card may be **billed**, inventory may be updated, and the order may then be forwarded to a warehouse for...

...be processed by the system and then forwarded to an appropriate third-party vendor for **billing** and fulfillment. In the latter instance, periodic status updates on the order may be provided...

...applications provided by third party vendors and running on STB 18. The

viewer can thus **access** the application via a remote control button while watching TV. The term "set top ...such as Microsoft Message Queue (MSMQ). CAS 16 utilizes at least one Ethernet card to **access**

6

HEDS 14 and at least one asynchronous transfer mode (ATM) card to **access**

DCN 26 via an ATM switch, such as a Xylan ATM switch. The system can have one more CAS 16 than is needed to handle **usage** so that in the event of a failure of one CAS, the overall system will...

...message queuing functionality; and database

C

process 204, which processes client requests and provides database **access** .

Socket server process 200 has at least two functions: a receive service, ServerRX 206, and...

...Oracle RDBMS. The use of an RDBMS is desirable because an RDBMS allows for scalable **access** to large amounts of data. HEDS 14 preferably has at least one Ethernet card to...

...operation.

Referring to Figure 3, database program 216 submits requests to HEDS 14 via remote **access** software 302, such as Oracle SQL\*NET. The requests include information for directing HEDS 14 profiles and specific transaction information; and an MSO **billing** system, which provides household specific information including name, address, telephone number, and a unique identifier...

...CCP server 26 can be a large, highly available UNIX based server with a separate **disk farm** and an RDBMS. Scheduling system 30 can be a UNIX based server with an RDBMS...

...software package. Data warehouse 34 can be a large UNIX based server with a separate **disk farm** and an RDBMS. Each reporting system can be a Windows NT workstation. CCP 24 may...

...CTPs 22.

General ledger system 32 can record all of the commerce control network's **billable** transactions downloaded from the CCP servers 26, and then can aggregate transaction information on a...Favorites" list) that is stored in the CTP, such that the personalized list can be **accessed** at another time. By selecting another button, the user can enter the electronic buying guide...

5/3,K/28 (Item 11 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00783676 \*\*Image available\*\*

INTERFACE FOR PURCHASING PRODUCTS IN A BROADCAST PROGRAMMING NETWORK  
INTERFACE PERMETTANT D'ACHETER DES PRODUITS DANS UN RESEAU DE PROGRAMMATION  
D'EMISSIONS

Patent Applicant/Assignee:

COMMERCE TV CORPORATION, 325 Wood Road, Braintree, MA 02184, US, US

(Residence), US (Nationality)

Inventor(s):

KAY Matthew W, 8 Charles Everett Way, Hingham, MA 02043, US,

Sylvia Keys

11-May-05 10:37 AM

LAUGHLIN Matthew J, 228 River Street, Norwell, MA 02061, US,  
CAMPBELL Colin P, 60 Robinwood Road, Norwood, MA 02062, US,  
Legal Representative:  
STADNICKI Alfred (agent), 5th floor, 1146 Nineteenth Street, NW,  
Washington, DC 20036, US,  
Patent and Priority Information (Country, Number, Date):  
Patent: WO 200117259 A1 20010308 (WO 0117259)  
Application: WO 2000US23570 20000828 (PCT/WO US0023570)  
Priority Application: US 99384182 19990827; US 2000648551 20000828  
Designated States:  
(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)  
AU CA JP  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 7786

Fulltext Availability:  
Detailed Description

#### Detailed Description

... as a  
significant interactive medium for entertainment, communications,  
research, education and e-commerce. Although Internet **access** has  
historically required a personal computer, it may be desirable for  
consumers to receive electronic...

...inband data path (IDP) and an out-of-band data path (ODP) . DHCTs  
can then **access** the BFS in much the same way that a PC **accesses** a  
hard drive.

The IDP is a 27 Mbps data channel that the DHCTs tune...  
...loading a new application on the DHCT as well as  
in any situation where fast **access** to the BFS is required. The IDP  
is one-way; no programming content can be...

...the IDP  
data is being read.

The ODP is a data channel that can be **accessed** while  
programming content is being sent to the DHCT. The two components  
that make up **access** an electronic buying guide with a purchase  
screen for products that are related to that...

...as in the HEDS) in a list that is  
personalized for the particular user and **accessible** so the  
personalized list can be retrieved at a later time by the user.

This **accessible** and personalized list in essence functions as a  
persistent shopping cart containing the user's...

...server. When the user  
makes an input in response to the icon, further information is  
**accessed** from a memory for display. The icon and the information in  
memory are preferably decoupled such that the information can be  
modified separately, preferably in a manner that is **accessible** to  
the information provider.

Another feature of the system of the present invention is the...

CTP,, such that the personalized list can be **accessed** at another time. By selecting another button, the user can enter the electronic buying guide...

5/3,K/29 (Item 12 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00783675 \*\*Image available\*\*

**ELECTRONIC COMMERCE SYSTEM ARCHITECTURE**  
**ARCHITECTURE DE SYSTEME COMMERCIAL ELECTRONIQUE**

Patent Applicant/Assignee:

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(Residence), US (Nationality)

Inventor(s):

KAY Matthew W, 8 Charles Everett Way, Hingham, MA 02043, US,  
LAUGHLIN Matthew J, 228 River Street, Norwell, MA 02061, US,  
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Legal Representative:

STADNICKI Alfred (agent), 1146 Nineteenth Street, NW, Fith floor,  
Washington, DC 20036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117258 A1 20010308 (WO 0117258)

Application: WO 2000US23569 20000828 (PCT/WO US0023569)

Priority Application: US 99384182 19990827

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 8862

Fulltext Availability:

Detailed Description

Detailed Description

... as a significant interactive medium for entertainment, communications, research, education and e-commerce.

Although Internet **access** has historically required a personal computer, it may be desirable for consumers to receive electronic...

...inband data path (IDP) and an out-of-band data path (ODP). DHCTs can then **access** the BFS in much the same way that a PC **accesses** a hard drive.

The IDP is a 27 Mbps data channel that the DHCTs tune...

...loading a new application on the DHCT as well as in any situation where fast **access** to the BFS is required. The IDP is one-way; no programming content can be...

...the IDP data is being read.

The ODP is a data channel that can be **accessed** while programming content is being sent to the DHCT. The two components that make up...

...a certain key on the television remote control upon seeing an icon

during programming and **access** an electronic buying guide with a purchase screen for products ...in the HEDS) in a list

3

that is personalized for the particular user and **accessible** so the personalized list can be retrieved at a later time by the user. This **accessible** and personalized list in essence functions as a persistent shopping cart containing the user's...

...server. When the user makes an input in response to the icon, further information is **accessed** from a memory for display. The icon and the information in memory are preferably decoupled such that the information can be modified separately, preferably in a manner that is **accessible** to the information provider.

Another feature of the system of the present invention is the...

...the order can be processed by the system, the user's credit card may be **billed**, inventory may be updated, and the order may then be forwarded to a warehouse for...

...be processed by the system and then forwarded to an appropriate third-party vendor for **billing** and fulfillment. In the latter instance, periodic status updates on the order may be provided...

...applications provided by third party vendors and running on STB 18. The viewer can thus **access** the application via a remote control button while watching TV. The term "set top box...CD M  
Microsoft Message Queue (MSMQ). CAS 16 utilizes at least one Ethernet card to **access**

6

HEDS 14 and at least one asynchronous transfer mode (ATM) card Lo **access** DCN 26 via an ATM switch, such as a Xylan ATM switch. The system can have one more CAS 16 than is needed to handle **usage** so that in the event of a failure of one CAS, the overall system will...

...message queuing functionality; and database

C

process 204, which processes client requests and provides database **access**.

Socket server process 200 has at least two functions: a receive service, ServerRX 206, and...

...Oracle RDBMS. The use of an RDBMS is desirable because an RDBMS allows for scalable **access** to large amounts of data. HEDS 14 preferably has at least one Ethernet card to...

...operation.

Referring to Figure 3, database program 216 submits requests to HEDS 14 via remote **access** software 302, such as Oracle SQL\*NET. The requests include information for directing HEDS 14 MSO **billing** system, which provides household specific information including name, address, telephone number, and an unique identifier...

...CCP server 26 can be a large, highly available UNIX based server with a separate **disk farm** and an RDBMS. Scheduling system 30 can be a UNIX based server with an RDBMS...

...software package. Data warehouse 34 can be a large UNIX based server with a separate **disk farm** and an RDBMS. Each reporting system can be a Windows NT workstation. CCP 24 may...



...CTPs 22.

General ledger system 32 can record all of the commerce control network's **billable** transactions downloaded from the CCP servers 26, and then can aggregate transaction information on a...Favorites" list) that is stored in the CTP, such that the personalized list can be **accessed** at another time. By selecting another button, the user can enter the electronic buying guide...

5/3,K/30 (Item 13 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00783674 \*\*Image available\*\*

**AN INTERFACE FOR PURCHASING PRODUCTS IN A BROADCAST PROGRAMMING NETWORK  
INTERFACE POUR L'ACHAT DE PRODUITS DANS UN ENVIRONNEMENT DE PROGRAMMATION  
VIDEO**

Patent Applicant/Assignee:

COMMERCE TV CORPORATION, 325 Wood Road, Braintree, MA 02184, US, US  
(Residence), US (Nationality)

Inventor(s):

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LAUGHLIN Matthew J, 228 River Street, Norwell, MA 02061, US,  
CAMPBELL Colin P, 60 Robinwood Road, Norwood, MA 02062, US,

Legal Representative:

STADNICKI Alfred (agent), Fifth Floor, 1146 Nineteenth Street NW,  
Washington, DC 20036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117257 A1 20010308 (WO 0117257)

Application: WO 2000US23565 20000828 (PCT/WO US0023565)

Priority Application: US 99384182 19990827; US 2000644656 20000818

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AU CA JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 7856

Fulltext Availability:

Detailed Description

Detailed Description

... as a

significant interactive medium for entertainmentf communications,  
research, education and e-commerce. Although Internet **access** has  
historically required a personal computer, it may be desirable for  
consumers to receive electronic...

...inband data path (IDP) and an out-of-band data path (ODP) . DHCTs  
can then **access** the BFS in much the same way that a PC **accesses** a  
hard drive.

The IDP is a 27 Mbps data channel that the DHCTs tune...

...loading a new application on the DHCT as well as  
in any situation where fast **access** to the BFS is required. The IDP  
is one-way; no programming content can be...

...the IDP  
data is being read.

The ODP is a data channel that can be **accessed** while programming content is being sent to the DHCT. The two components that make up programming and **access** an electronic buying guide with a purchase screen for products that are related to that...

...as in the HEDS) in a list that is personalized for the particular user and **accessible** so the personalized list can be retrieved at a later time by the user. This **accessible** and personalized list in essence functions as a persistent shopping cart containing the user's...

...server. When the user makes an input in response to the icon, further information is **accessed** from a memory for display. The icon and the information in memory are preferably decoupled such that the information can be modified separately, preferably in a manner that is **accessible** to the information provider.

Another feature of the system of the present invention is the...

...the order can be processed by the system, the user's credit card may be **billed**, inventory may be updated, and the order may then be forwarded to a warehouse for...

...be processed by the system and then forwarded to an appropriate third-party vendor for **billing** and fulfillment. In the latter instance, periodic status updates on the order may be provided...applications provided by third party vendors and running on STB 18. The viewer can thus **access** the application via a remote control button while watching TV. The term "set top box..."

...such as Microsoft Message Queue (MSMQ) .

CAS 16 utilizes at least one Ethernet card to **access** HEDS 14 and at least one asynchronous transfer mode (ATM) card to **access** DCN 26 via an ATM switch, such as a Xylan ATM switch. The system can have one more CAS 16 than is needed to handle **usage** so that in the event of a failure of one CAS, the overall system will...

...the message queuing functionality; and database process 204, which processes client requests and provides database **access** .

7

SUBSTITUTE SHEET (RULE 26)

Socket server process 200 has at least two functions: a...

...Oracle RDBMS. The use of an RDBMS is desirable because an RDBMS allows for scalable **access** to large amounts of data. HEDS 14 preferably has at least one Ethernet card to...

...operation.

Referring to Figure 3, database program 216 submits requests to REDS 14 via remote **access** software 302, such as Oracle SQL\*NET. The requests include information for directing REDS 14...credit card data, pass codes,, multiple user profiles and specific transaction information; and an MSO **billing** system, which provides household specific information including name, address, telephone number, and an unique identifier...

...CCP server 26 can be a large, highly available UNIX based server with a separate **disk farm** and an RDBMS. Scheduling system 30 can be a UNIX based server with an RDBMS...

...software package. Data warehouse 34 can be a large UNIX based server with a separate **disk farm** and an RDBMS. Each reporting system can be a Windows NT workstation. CCP 24 may...

...CTPs 22.

General ledger system 32 can record all of the commerce control network's **billable** transactions downloaded from the CCP servers 26, and then can aggregate transaction information on a... Favorites" list) that is stored in the CTP,, such that the personalized list can be **accessed** at another time. By selecting another button, the user can enter the electronic buying guide...

5/3,K/31 (Item 14 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00783673 \*\*Image available\*\*

**VIDEO DISTRIBUTION SYSTEM AND METHOD**  
**PROCEDE ET SYSTEME DE DISTRIBUTION VIDEO**

Patent Applicant/Assignee:

COMMERCE TV CORPORATION, 325 Wood Road, Braintree, MA 02184, US, US  
(Residence), US (Nationality)

Inventor(s):

KAY Matthew W, 8 Charles Everett Way, Hingham, MA 02043, US,  
LAUGHLIN Matthew J, 228 River Street, Norwell, MA 02061, US,  
CAMPBELL Colin P, 60 Robinwood Road, Norwood, MA 02062, US,

Legal Representative:

STADNICKI Alfred (agent), Fifth floor, 1146 Nineteenth Street, NW,  
Washington, DC 20036, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200117256 A1 20010308 (WO 0117256)

Application: WO 2000US23563 20000828 (PCT/WO US0023563)

Priority Application: US 99384182 19990827; US 2000644890 20000818

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU CA JP

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Filing Language: English

Fulltext Word Count: 8735

Fulltext Availability:

Detailed Description

#### Detailed Description

... as a significant interactive medium for entertainment, communications, research, education and e-commerce.

Although Internet **access** has historically required a personal computer, it may be desirable for consumers to receive electronic...

...inband data path (IDP) and an out-of-band data path (ODP). DHCTs can then **access** the BFS in much the same way that a PC **accesses** a hard drive.

The IDP is a 27 Mbps data channel that the DHCTs tune...

...loading a new application on the DHCT as well as in any situation where fast **access** to the BFS is required. The IDP is one-way; no programming content can be...

...the IDP data is being read.

The ODP is a data channel that can be **accessed** while programming content is being sent to the DHCT. The two components that make up...

...a certain key on the television remote control upon seeing an icon during programming and **access** an electronic buying guide with a purchase screen for products ...in the REDS) in a list

3

that is personalized for the particular user and **accessible** so the personalized list can be retrieved at a later time by the user. This **accessible** and personalized list in essence functions as a persistent shopping cart containing the user's...

...server. When the user makes an input in response to the icon, further information is **accessed** from a memory for display. The icon and the information in memory are preferably decoupled such that the information can be modified separately, preferably in a manner that is **accessible** to the information provider.

Another feature of the system of the present invention is the...

...the order can be processed by the system, the user's credit card may be **billed**, inventory may be updated, and the order may then be forwarded to a warehouse for...

...be processed by the system and then forwarded to an appropriate third-party vendor for **billing** and fulfillment. In the latter instance, periodic status updates on the order may be provided...

...applications provided by third party vendors and running on STB 18. The viewer can thus **access** the application via a remote control button while watching TV. The term "set top box...0 L@

Microsoft Message Queue (MSMQ). CAS 16 utilizes at least one Ethernet card to **access**

6

HEDS 14 and at least one asynchronous transfer mode (ATM) card to **access** DCN 26 via an ATM switch, such as a Xylan ATM switch. The system can have one more CAS 16 than is needed to handle **usage** so that in the event of a failure of one CAS, the overall system will...

...the message queuing functionality; and database process 204, which processes client requests and provides database **access**.

Socket server process 200 has at least two functions: a receive service, ServerRX 206, and...

...Oracle RDBMS. The use of an RDBMS is desirable because an RDBMS allows for scalable **access** to large amounts of data. HEDS 14 preferably has at least one Ethernet card to...

...operation.

Referring to Figure 3, database program 216 submits requests to HEDS 14 via remote **access** software 302, such as Oracle SQL\*NET. The requests include information for directing HEDS 14...

...credit card data, pass codes, multiple user profiles and specific transaction information; and an MSO **billing** system, which provides household specific information including name, address, telephone number, and an unique identifier...

...CCP server 26 can be a large, highly available UNIX based server with a separate **disk farm** and an RDBMS. Scheduling system 30 can be a UNIX based server with an RDBMS...

...software package. Data warehouse 34 can be a large UNIX based server with a separate **disk farm** and an RDBMS. Each reporting system can be a Windows NT workstation. CCP 24 may...

...CTPs 22.

General ledger system 32 can record all of the commerce control network's **billable** transactions downloaded from the CCP servers 26, and then can aggregate transaction information on a...Favorites" list) that is stored in the CTP, such that the personalized list can be **accessed** at another time. By selecting another button, the user can enter the electronic buying guide...

5/3,K/32 (Item 15 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00783618 \*\*Image available\*\*

**SERVICING REAL TIME REQUEST VIA A NETWORK**

**DEMANDE DE SERVICES EN TEMPS REEL VIA UN RESEAU**

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200117191 A2-A3 20010308 (WO 0117191)

Application: WO 2000US23564 20000828 (PCT/WO US0023564)

Priority Application: US 99384182 19990827; US 2000644659 20000818

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(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE  
Publication Language: English  
Filing Language: English  
Fulltext Word Count: 6805

Fulltext Availability:  
Detailed Description

#### Detailed Description

... as a significant interactive medium for entertainment, communications, research, education and e-commerce.

Although Internet **access** has historically required a personal computer, it may be desirable for consumers to receive electronic...

...inband data path (IDP) and an out-of-band data path (ODP). DHCTs can then **access** the BFS in much the same way that a PC **accesses** a hard drive.

The IDP is a 27 Mbps data channel that the DHCTs tune...

...loading a new application on the DHCT as well as in any situation where fast **access** to the BFS is required. The IDP is one-way; no programming content can be...

...the IDP data is being read.

The ODP is a data channel that can be **accessed** while programming content is being sent to the DHCT. The two components that make up...

...a certain key on the television remote control upon seeing an icon during programming and **access** an electronic buying guide with a purchase screen ...in the HEDS) in a list

3

that is personalized for the particular user and **accessible** so the personalized list can be retrieved at a later time by the user. This **accessible** and personalized list in essence functions as a persistent shopping cart containing the user's...

...server. When the user makes an input in response to the icon, further information is **accessed** from a memory for display. The icon and the information in memory are preferably decoupled such that the information can be modified separately, preferably in a manner that is **accessible** to the information provider.

Another feature of the system of the present invention is the...

...the order can be processed by the system, the user's credit card may be **billed**, inventory may be updated, and the order may then be forwarded to a warehouse for...

...be processed by the system and then forwarded to an appropriate third-party vendor for **billing** and fulfillment. In the latter instance, periodic status updates on the order may be provided...

...applications provided by third party vendors and running on STB 18. The viewer can thus **access** the application via a remote control button while watching TV. The term "set top box...0 1

@

Microsoft Message Queue (MSMQ). CAS 16 utilizes at least one Ethernet

card to **access**  
6  
HEDS 14 and at least one asynchronous transfer mode (ATM) card to **access**  
DCN 26 via an ATM switch, such as a Xylan ATM switch. The system can  
have one more CAS 16 than is needed to handle **usage** so that in the  
event of a failure of one CAS, the overall system will...  
...the message queuing functionality; and database process 204, which  
processes client requests and provides database **access** .

Socket server process 200 has at least two functions: a receive service,  
ServerRX 206, and...

...Oracle RDBMS. The use of an RDBMS is desirable because an RDBMS allows  
for scalable **access** to large amounts of data. HEDS 14 preferably has at  
least one Ethernet card to...

...operation.

Referring to Figure 3, database program 216 submits requests to HEDS 14  
via remote **access** software 302, such as Oracle SQL\*NET. The requests  
include information for directing HEDS 14 **billing** system, which  
provides household specific information including name, address,  
telephone number, and an unique identifier...

...CCP server 26 can be a large, highly available UNIX based server with a  
separate **disk farm** and an RDBMS. Scheduling system 30 can be a UNIX  
based server with an RDBMS...

...software package. Data warehouse 34 can be a large UNIX based server  
with a separate **disk farm** and an RDBMS. Each reporting system can be  
a Windows NT workstation. CCP 24 may...

...CTPs 22.

General ledger system 32 can record all of the commerce control network's  
**billable** transactions downloaded from the CCP servers 26, and then can  
aggregate transaction information on a...Favorites" list) that is stored  
in the CTP, such that the personalized list can be **accessed** at another  
time. By selecting another button, the user can enter the electronic  
buying guide...

5/3,K/33 (Item 16 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00779001 \*\*Image available\*\*

#### NETWORKED TOYS

#### JOUETS EN RESEAU

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2000US22722 20000818 (PCT/WO US0022722)

Sylvia Keys

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
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Fulltext Availability:

Detailed Description

Claims

English Abstract

...based upon explicit inputs, or may gather profile information using inferences drawn from actual toy **usage** . Profile information may then be used to select or synthesize play patterns and other content...

French Abstract

...explicitement ou ledit jouet peut rassembler des informations au moyen d'inferences tirees de l' **usage** reel du jouet. Les informations de profil peuvent alors etre utilisees pour selectionner ou synthetiser...

Detailed Description

... based upon explicit inputs. or may gather profile information using inferences drawn from actual toy **usage** . Profile information may then be used to select or synthesize play patterns and...

...be suitably adapted to other applications where a programmable toy includes a data port for **accessing** a network computer. The principles of the invention may be particularly applicable to...server. Such servers may further include one or more mass storage devices such as a **disk farm** or a redundant array of independent disk ("RAID") system for additional storage and data integrity...

...the user. The memory may be any non-volatile or volatile memory, including random **access** memory, dynamic random **access** memory, read-only memory, programmable read-only memory, erasable programmable read-only memory, and so...one embodiment, the connection may be a telecommunications connection using, for example, toll-free **access** to a dial-in server connected to the server. The connection may optionally...

...of presence. The connection may be some combination of these, such as telecommunications **access** to a local network service provider, which provides **access** to the network and a data network connection to the Internet.

The server may...

...information collected by the toy concerning for example, play patterns, actual toy **usage** , and any other sensory data gathered by the



subscription services, and review financial and **usage** reports for toys.

The administrator 1680 may be provided with administrative tools for **accessing** the toy engine 1620. This may include authorization, password protection, account management, registration of content...

...the user data database 1650, notification to other entities of content changes, generation of toy **usage** reports, generation of content **usage** reports, generation of financial reports, modification of **access**, **billing**, payment, and other terms of **usage** of the toy engine 1620, system administration, and so forth.  
The developer 1682 may be...

...with play patterns. The developer 1682 may, for example, specify or modify inferences related to **usage**. These may be input inferences. For example, when a song play pattern is repeated by...

...by the developer 1682. Tools for the developer 1682 may also include tools for monitoring **usage** of various play patterns, which may be of considerable value to a developer in improving...

#### Claim

... an icon having a body, and an identification number;  
a connection to an external network **access** device;  
a switch within the body of the icon, the switch configured to respond to  
...

5/3,K/34 (Item 17 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00497509 \*\*Image available\*\*

**METHOD AND SYSTEM FOR MANUFACTURING A DATA PRODUCT**

**PROCEDE ET SYSTEME POUR L'ELABORATION D'UN SUPPORT DE DONNEES**

Patent Applicant/Assignee:

CUSTOMTRACKS CORPORATION,

Inventor(s):

COOK David P,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9928861 A1 19990610

Application: WO 98US25680 19981203 (PCT/WO US9825680)

Priority Application: US 97984907 19971204

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Fulltext Availability:

Detailed Description

Claims

Detailed Description

... as a "network" computer.

Alternatively, a user may create, order and purchase the product by **accessing** an Internet site from which the custom CD "service" is provided. Another alternative is

for the user to **access** a telephone network (such as an 800-number service), and to order the custom CD...

...human or automated operator, or by fax or e-mail. Regardless of how the user **accesses** the system, it is assumed that the customer selects a "set" of sound recordings (or...

...selected recordings (or data). The library of available recordings is preferably supported by a massive "**disk farm**," which is preferably a relatively large collection of computers on which (or attached to which...

...the requested CD product are assembled at the burner farm.

Alternatively, the customer (or the **disk farm**) may assemble the song data in a prior process and submit the assembled data (e...

...e., the song tracks) selected by the customer are caused to be transferred from the **disk farm** to the manufacturing facility, which preferably comprises a collection of machines that "burn" or otherwise...

...referred to as an "image" of the CD product. Preferably, the "burner" farm (like the **disk farm**) comprises a large number of connected computers and associated burner machines useful in manufacturing CD...number of products may be continually assembled, manufactured, packaged and shipped as multiple customers continually **access** the facility (e.g., through retail sites, the Web site, through direct electronic communication, and the like) and multiple product "images" are in turn transferred from the **disk farm** to the facility. In a particular preferred embodiment, large scale processing of CD product orders...

...a hyperlink with an associated shipping tracking number. Upon activation of the hyperlink, the customer **accesses** the Web site (or some other site, such as a UPS® or Federal Express® site...is a block diagram of a preferred manufacturing facility that is connected to a large "**disk farm**" via a communications subsystem according to the teachings of the present invention.

#### DETAILED DESCRIPTION OF...

...Figure 1, the system 10 comprises a number of major components: a storage subsystem or "**disk farm**" 12, a communications subsystem 14, an Internet-type (e.g., a Web) server 15, a...

...which may be part of the system 10 or a separate third party-managed facility **accessible** via a known connection), a manufacturing subsystem or (in the case of a CD product...

...burner farm" 18, and a shipping management subsystem 19. As will be described below, the **disk farm** 12 generally includes a plurality of servers and a large number of networked or linked...invention, however. As is known in the art, a "network" computer includes a processor, random **access** or other "volatile" memory (RAM) , a display interface, one or more input devices (such as...

...establishment includes a credit card reader or keypad for receiving a credit card or other **billing** information.

Alternatively, the customer may simply pay for the product (at a register) and receive an **access** number (that must be entered into the machine) or even a token. In a further...

...at retail, electronically or otherwise) a "gift" certificate for a third party, who may then **access** the service by going to the retail establishment and supplying the gift number or token...

...Of course, as used herein, "retail establishment" should be broadly construed to mean any publicly- **accessible** location (e.g., a kiosk or the like) and not merely a "for profit" retail...part of the system preferably include a "suite" or collection of known Internet tools to **access** other computers of the network and thus to obtain certain services. These services may include...

...Hypertext Transfer Protocol (HTTP) or such other protocols hereinafter developed or adopted, which provides users **access** to multimedia files using Hypertext Markup Language (HTML) or any other hereinafter developed or adopted...

...from which the custom CD ROM manufacturing/distribution service of the present invention may be **accessed** . The Internet server 15 is shown as a single machine, but one of ordinary skill...

...copied to comprise a plurality of similar server machines (scaled) .

The Web server 15 is **accessible** through the WWN or Internet-type network in a known manner. In the Internet paradigm...other storage facilities for maintaining transaction information including, without limitation, the identity of each customer **accessing** the service, the customer's identifying information (e.g., name, address, social security number, credit...

...using SSL) such that only the customer and third parties authorized by the customer may **access** the stored user and preferences information. Using information in the management system, the service provider...

...management of all customer transactions. Functions typically provided by

the accounting system include transaction handling, **billing**, account management and the like. The accounting routine interfaces with the credit subsystem 17 in...  
...preferred embodiment, the communications interface implements a firewall or other convenient security mechanism.

A user **accessing** the system selects a "set" of recordings (e.g., (song/artist) 1; (song/artist) 2 depend on the interface and thus the method of **accessing** the service. In a typical case, a user of a client machine **accesses** the Internet server 15 through a Web browser and is presented with an option to...

...and tracked by the customer, as will be seen).

Referring now to Figure 2, the **disk farm** 12 preferably comprises a large number of servers 32a-32n and possibly 1000's of...

...convert such information into a suitable format for storage in the storage devices of the **disk farm**. if necessary, one or more "management" servers 34 may be used to control individual machines:...

...of recordings is not a limitation of the invention, although it is expected that the **disk farm** supports a very large number of song tracks to enhance the overall service. The disk...

...systems located at a particular location, although one of ordinary skill will appreciate that the **disk farm** may be mirrored, or that individual servers and/or storage systems, may be geographically dispersed. As particular song tracks are added to the **disk farm**, information about the new tracks (and their availability) is dispersed throughout the network (e.g...ensure a high quality, usable product. Thus, the particular management routines in each of the **disk farm** and burner farm machines preferably include appropriate control routines to ensure that once the set...recorded including, without limitation, the time at which the completed "image" is assembled from the **disk farm**, the time at which the data comprising individual components is sent over the communications subsystem...

...available to the management subsystem 16 of Figure 1. In this manner, the customer may **access** the service to determine the particular state of his or her particular manufacturing request.

In...shipping tracking number such that when the customer activates the link, he or she may **access** a tracking system (e.g. . a third party site such as the UPS® or Federal...

...as a set of instructions (program code) in a code module resident in the random **access** memory of a computer. Until required by the computer, the set of instructions may be...

Claim

... method of custom manufacture of a digital data product from digital information supported in a **disk farm** connected to a network, wherein a set of burner machines are connected to the network...

...method comprising the steps of:

- (a) selecting a set of digital data files in the **disk farm** ;
- (b) identifying one of the set of burner machines to be used in manufacturing the...

...method as described in Claim 1 wherein the set of digital data files in the **disk farm** are selected by a customer **accessing** the network from a terminal.

5 The method as described in Claim 4 wherein the...

...method as described in Claim I wherein the set of digital data files in the **disk farm** are selected by a customer **accessing** the network through an electronic communication.

7 The method as described in Claim I further...

...of large scale custom manufacture of digital data products from digital information supported in a **disk farm** connected to a computer network, wherein a set of machines in a manufacturing farm are...

...of a set of customers select a custom set of digital data files in the **disk farm** to generate a order;  
for each order, identifying one of the set of machines to...

5/3,K/35 (Item 18 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00482074 \*\*Image available\*\*

**AUTOMATED METER READING SYSTEM**

**SYSTEME DE LECTURE AUTOMATIQUE DES COMPTEURS**

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LUNNEY Robert H,  
MARTINEZ Maureen,  
KENNEY Jonathan Q,  
MILL David Ethan,  
HUBBARD Charles Keith,

Patent and Priority Information (Country, Number, Date):

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Publication Language: English

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Fulltext Availability:

Detailed Description

Claims

English Abstract

...automated meter reading server includes a repository (120) of metering data, and additionally provides timely **access** to information by including collection, storage, validation, estimation, editing, publishing and securing of meter consumption...

Detailed Description

... Commercial and Industrial

CIS - Customer Information System

CDS - Cell Directory Service

CDMA - Code Division Multiplexed **Access**

CDPD - Cellular Digital Packet Data

CM -Communications Manager

CORBA - Common Object Request Broker Architecture

CPU...

...5 CSR - Customer Service Representative

CURDLE - Create, Update, Read, Delete, List and Exist

DAO - Data **Access** Object

DCE - Distributed Computing Environment

DFS - Distributed File Service

DSS - Distributed Security Service

DTS - Distributed...

...File System

SNMP - Simple Network Management Protocol

SOE - Sequence of Events

TDMA - Time Division Multiple **Access**

TM - Transaction Manager

TOU - Time of Use

LTDC - Utility Distribution Company

UPC - Universal Protocol Converter...collect data via a pulsed input, and over a period of time to determine energy **usage** or may create a load profile. These systems, however, are not capable of reading data...

...system is that they do not

accommodate the requirements of end-user systems (e.g., **billing** systems, energy management systems and supervisory control systems).

Theses systems are typically standalone systems, separate...MDMA) has been created which is responsible for collecting and publishing the data required for **billing** . Further, the MDMA requires that settlement quality data be provided as the MDMA publishes data...

...entities, including the ESP, the UDC and potentially other ancillary services (e.g., third party **billing** companies, etc.). However, conventional AMR systems were not designed to accommodate the demands of a...

...needs of commercial and industrial (C&I) and residential customers who

wherein said client user interface interacts with said external interface mechanisms and provides **access** to said server to invoke services provided by said server. 198. The client as recited...

...data conversion,

wherein said client user interface interacts with said external interface mechanisms and provides **access** to said server to invoke services provided by said server.

5/3,K/36 (Item 19 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00305222 \*\*Image available\*\*

**NO-RESET OPTION IN A BATCH BILLING SYSTEM**

**ABSENCE D'OPTION DE REMISE A L'ETAT INITIAL DANS UN SYSTEME DE FACTURATION PAR LOTS**

Patent Applicant/Assignee:

TELEFLEX INFORMATION SYSTEMS INC,

Inventor(s):

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HOLT Clayton Walter,  
ARNOLD David J Jr,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9523373 A1 19950831

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KZ LK LR LT LU LV MD MG MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK TJ  
TT UA UG UZ VN KE MW SD SZ UG AT BE CH DE DK ES FR GB GR IE IT LU MC NL  
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**NO-RESET OPTION IN A BATCH BILLING SYSTEM**

Fulltext Availability:

Detailed Description

Claims

Detailed Description

I

**NO-RESET OPTION IN A BATCH BILLING SYSTEM**

**FIELD OF THE INVENTION**

This invention relates generally to batch processing and more particularly...

...application to the batch processing of customer account information in order to perform periodic customer **billing**.

**BACKGROUND OF THE INVENTION**

There currently exist systems for customer **billing** in industries wherein a large number of customers are **billed** periodically based upon monthly (recurring) charges as well as dynamic use related (non-recurring) charges...

...is the flexibility with which such systems can adjust to changes in such variables as **billing** structure, tax rates, bill formatting and incentive program implementation.

Also of great importance in these...

...the ability to service an increasing number of customers as time progresses.

In a typical **billing** systems, the system should be designed to interface with peripheral devices and applications providing customer **usage** data from a variety of sources. In addition, such systems usually allow an employee of the **billing** company to interact with the system to, for example, specify the time, format and nature of invoice generation.

One example of an industry in which such a **billing** system is an important part of day to day operations is the cellular telephone/telecommunications...

...primary concern for a cellular carrier is its ability to provide accurate and easily understood **billing** statements so that customers will respond promptly with payment and so that customer service interactions...

...achieve this objective, it is often desirable for a cellular carrier to implement such a **billing** system as a high-volume application with the ability to communicate with applications providing for...by social security number, mobile number detection and monitoring reports which summarize long distance charges **billed** versus those recorded at the switch.

With respect to sales and marketing support, the system...

...to be created through the construction of a new rate plan in the appropriate tables. **Access**, service and equipment charges, like the rate plans are tabledriven. Equipment charges can be categorized...  
...of time), or non-recurring (one time charges).

Because of the periodic nature of the **billing** process in the cellular telephone industry, most systems have performed customer **billing** and invoicing as a sequential batch process. The traditional thinking on how to ran the...coupled individual processors each operating under the control of a shared operating system and each **accessing** a shared memory. The processors share peripheral devices and communicate with one another using a...has arisen for a scalable computer architecture capable of effectively and efficiently processing customer account **billing** statements.

#### SUMMARY OF THE PRESENT INVENTION

In view of the foregoing, it is a principle...

...for continuing processing. The present invention provides significantly improved resource utilization especially when multi-channel **access** to



the memory storing the discrete events is provided.

The present invention provides the advantage...a switch memory 316 connected thereto, at least one customer service node 308 and a **disk farm** 302. Back end processor 310 is connected to a printer 318 and a **disk farm** 304.

Front end processor 300 communicates with at least one switch 306 to activate or...transfer between databases maintained by each processor.

Two major databases are used by the customer **billing** system.

These databases typically store large volumes of information and therefore are preferably relational database...

...in these two databases. A first database, a customer information database 312, is stored in **disk farm** 302 at front end processor 300. Customer information database 312 stores all of the information...

...receivable, charges, service plans, etc. The second database, an invoice processing database 320, resides in **disk farm** 304 associated with back end processor 310. Invoice processing database 320 stores all of the...

...databases may reside on one disk, or may be spread out over several disks in **disk farm** 302 and 304 ...the database are spread onto several disks. This process is especially useful so that memory **accesses** will occur to a plurality of disks instead of the same disk all of the...

...sent via an express courier service to back end processor 310 and then downloaded onto **disk farm** 304. Alternatively, a data link could be established between switch 306 and back end processor...each call. Once rating is performed, the rated calls are stored in step 408 to **disk farm** 304 in flat file format. As new groups of calls are rated, the rated calls...

...each customer, a record of information is maintained in customer information database 312 stored in **disk farm** 302 at front end 300 and may include the customer's name, address, telephone number...

...plan, customer calling features selected, any custom calling information, accounts receivable, etc. This information is **accessible** by customer service representatives through customer service nodes 308. As customers request changes or request...

...for each customer and for collection queues which exist to track delinquent customers. Customer information **access** is also provided through OLT'P operations 324. Deposits and other payments may also be...off 'is selected by a system operator, for example, a supervisor for the cellular phone **billing** company who wishes to complete the charges for a

particular **billing** period. **Access** to cut-off is preferably limited to a selected few individuals at each of the...

...has been selected in step 418, then in step 420, all customer information necessary for **billing** is dumped from customer information database 312 at front end processor 300 to invoice processing...register contents, and program contents as the parent. The forked process, here the segment, has **access** to the same files as the MT13P. Also in step 510, the "exec" system call...system bus capabilities. One preferred embodiment, implemented in source code, of the present invention's **billing** operations which operates on either an SMP, uniprocessor, a massively parallel processing system or a...process to match the current hardware configuration as well as transparently meet future growth.

Existing **billing** applications which process customer accounts can be easily modified for use in the present distributed...

...on or queried via the inherent functionality of RDBMS's.

One preferred embodiment of a **billing** system operating as a discrete event processor according to the present invention comprises using a...

...each CPU having a cache memory of 512 KBytes. Twenty Four (24) disks in the **disk farm** comprised 1.3 GBytes of memory each with a disk ...sold under the trademark (ETHERNET).

Preferably, system 1000, having the single copy of the master **billing** process 1020, should be a higher MIPS machine such as a file server.

As mentioned, one copy of the master **billing** process 1020 resides on system 1000 and master **billing** process controls each of the distributed **billing** segments 1080 resident on systems 1000 and 1010. Each

system may further have other applications 1090 resident in main memory and executing concurrently with **billing** segment 1080. Each system 1010, must have customer data for the appropriate segment moved to local disk 1050 prior to the bill run. Master **billing** process 1020, containing the multithreaded batch control system, described above, distributes discrete events into segments...batch if only a few of the discrete events within the batch fail. In the **billing** context, this may mean that only one or more customer accounts did not process correctly...

...information database 312). These tables will be used to hold all data created by the **billing** process, as well as any changes to erroneous data found by human intervention (such as secondary tables preferably should.

- 1) include storage for information created during the **billing** process;
- 2) include storage for any new records appended to the customer or reference data...

...identifier for the run on which it was created.

determining **billing** information for each customer account.

12 The method of claim 9 wherein said discrete event...

...is a customer

account and wherein said step of processing each discrete event comprises determining **billing** information for each customer account.

19 The system of claim 16 wherein said discrete event...

...claim 16 wherein said discrete event is a customer

account, wherein said processing means determines **billing** information and

wherein **billing** information for each customer account is stored in said memory means immediately after each customer...

...claim 16 wherein said discrete event is a customer

account, wherein said processing means determines **billing** information and

further comprising the step of generating an invoice for each customer account immediately...wherein said discrete event is a customer account and wherein at least one processor determines **billing** information for each customer account.

27 The system of claim 25 wherein said discrete event...

5/3,K/37 (Item 20 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00305221 \*\*Image available\*\*

**METHOD AND APPARATUS FOR PROCESSING DISCRETE BILLING EVENTS**

**PROCEDE ET APPAREIL PERMETTANT DE TRAITER DES EVENEMENTS DE FACTURATION DISCRETS**

Patent Applicant/Assignee:

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Priority Application: US 94203193 19940228; US 94229538 19940419

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AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU JP KE KG KP KR  
KZ LK LR LT LU LV MD MG MN MW MX NL NO NZ PL PT RO RU SD SE SG SI SK TJ  
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Publication Language: English

Fulltext Word Count: 11186

**METHOD AND APPARATUS FOR PROCESSING DISCRETE BILLING EVENTS**

Fulltext Availability:

Detailed Description  
Claims

Detailed Description

METHOD AND APPARATUS FOR PROCESSING

DISCRETE **BILLING** EVENTS

FIELD OF THE INVENTION

This invention relates generally to batch processing and more particularly...

...application to the batch processing of customer account information in order to perform periodic customer **billing** .

BACKGROUND OF THE INVENTION

There currently exist systems for customer **billing** in industries wherein a large number of customers are **billed** periodically based upon monthly (recurring) charges as well as dynamic use related (non-recurring) charges...

...is the flexibility with which such systems can adjust to changes in such variables as **billing** structure, tax rates, bill formatting and incentive program implementation.

Also of great importance in these...

...the ability to service an increasing number of customers as time progresses.

In a typical **billing** systems, the system should be designed to interface with peripheral devices and applications providing customer **usage** data from a variety of sources. In addition, such systems usually allow an employee of the **billing** company to interact with the system to, for example, specify the time, format and nature of invoice generation.

One example of an industry in which such a **billing** system is an important part of day to day operations is the cellular telephone/telecommunications...

...primary concern for a cellular carrier is its ability to provide accurate and easily understood **billing** statements so that customers will respond promptly with payment and so that customer service interactions...

...achieve this objective, it is often desirable for a cellular carrier to implement such a **billing** system as a high-volume application with the ability to communicate with applications providing for...by social security number, mobile number detection and monitoring reports which summarize long distance charges **billed** versus those recorded at the switch.

With respect to sales and marketing support, the...

...to be created through the construction of a new rate plan in the appropriate tables. **Access** , service and equipment charges, like the rate plans are tabledriven. Equipment charges can be categorized...

...of time), or non-recurring (one time charges).

Because of the periodic nature of the **billing** process in the cellular telephone industry, most systems have performed customer **billing** and invoicing as a sequential batch process. The traditional thinking on how to run the...coupled individual processors each operating under the control of a shared operating system and each **accessing** a shared memory. The processors share peripheral devices and communicate with one another using a...In the cellular phone industry, batches comprising customer account information to be processed for generating **billing** information are predominantly processed on mainframe uniprocessors. **Billing** information is generally processed periodically, such as every month, in order to produce invoices for...

...that invoices may be generated within a short period following the "cut off" point for **billing**.

Traditional high volume batch processing as implemented in the cellular telephone industry relies on performing...

...which are typically the speed limiting factor in high volume batch processing runs such as **billing** and invoicing.

As a further example, consider a **billing** invoice job which consists of the following tasks for a large number of customer...being established. Rapid growth of customers often makes it difficult for carriers to meet heavy **billing** processing demands in a timely manner and to respond quickly to large increases in the...

...quite so simple, however, as to simply employ an SMP machine to execute already existing **billing** and invoicing applications. In fact, on an SMP machine having many relatively low MIP processors...  
...has arisen for a scalable computer architecture capable of effectively and efficiently processing customer account **billing** statements.

#### SUMMARY OF THE INVENTION

...for continuing processing. The present invention provides significantly improved resource utilization especially when multi-channel **access** to the memory storing the discrete events is provided.

The present invention provides the advantage...a switch memory 316 connected thereto, at least one customer service node 308 and a **disk farm** 302. Back end processor 310 is connected to a printer 318 and a **disk farm** 304.

Front end processor 300 communicates with at least one switch 306 to activate or...transfer between databases maintained by each processor.

Two major databases are used by the customer **billing** system.

7/3,K/1 (Item 1 from file: 9)  
DIALOG(R)File 9:Business & Industry(R)  
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82135 Supplier Number: 23201462 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**TEMPERATURE RISING ON MARKET FOR REDUNDANT ARRAYS**  
(The strategic market for redundant arrays of independent disk (RAID) is forecast to grow in revenue from \$2.8 bil in 1994 to \$10 bil by 1998)  
VAR Business, v XI, n 8, p 59+  
May 15, 1995  
DOCUMENT TYPE: Journal ISSN: 0894-5802 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 1285

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...provide the tools to manage data across the different server environments, i.e., implement a **disk farm**. Roy notes that "clustering" is also heating up RAID sales by dramatically conserving band width...

...VARs have to understand their customers' workloads and application environments -- their files, block sizes and **usage** patterns. Tracing a computer's **usage** patterns is difficult, often leaving VARs guessing, which RAID level is appropriate.  
"Users don't...

...it won't necessarily shorten your sales cycle. On a high-capacity array, the typical **time frame** is 45 to 90 days. On a **disk farm**, it's more often 90 to 180 days because of the six-figure cost involved...

7/3,K/2 (Item 1 from file: 13)  
DIALOG(R)File 13:BAMP  
(c) 2005 The Gale Group. All rts. reserv.

00777624 Supplier Number: 25189758 (USE FORMAT 7 OR 9 FOR FULLTEXT)  
**MGIC standardizes on EMC technology: mortgage insurer migrates information from three disparate systems to SAN to increase flexibility. (Data Storage)**  
(Mortgage Guarantee Insurance Co)  
Article Author(s): MacSweeney, Greg  
Insurance & Technology, v 27, n 5, p 40(1)  
April 2002  
DOCUMENT TYPE: Journal ISSN: 1054-0733 (United States)  
LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 699

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:

...of the insurance industry, companies will go into contortions to make sure it is readily **accessible**.

Take Mortgage Guarantee Insurance Co. (MGIC, Milwaukee, \$3.8 billion in assets), which had a...  
...its eMagic.com mortgage insurance services portal. "EMagic is a portal that originators use to **access** wholesale and vendor partners in the mortgage process," relates Sterling. "It gives originators a one...

...technology, move data from three systems to a SAN, and also leverage the EMC storage **disk farms** to the fullest. "We have had unused disk space for a while," Sterling says. "Some..."

...set a goal to migrate all of the data to EMC in a four-month **time frame**. Supporting the migration was EMC software, including Symmetrix Data Migration Services.

"The migration needed to..."

7/3,K/3 (Item 1 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02413742 152575141

**MGIC standardizes on EMC technology**

MacSweeney, Greg

Insurance & Technology v27n5 PP: 40 Apr 2002

ISSN: 1054-0733 JRNL CODE: IIN

WORD COUNT: 703

...ABSTRACT: of the insurance industry, companies will go into contortions to make sure it is readily **accessible**. Take Mortgage Guarantee Insurance Co. (MGIC, Milwaukee, \$3.8 billion in assets), which had a...

...TEXT: of the insurance industry, companies will go into contortions to make sure it is readily **accessible**.

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...its eMagic.com mortgage insurance services portal "EMagic is a portal that originators use to **access** wholesale and vendor partners in the mortgage process," relates Sterling. "It gives originators a one...

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...set a goal to migrate all of the data to EMC in a four-month **time frame**. Supporting the migration was EMC software, including Symmetrix Data Migration Services.

"The migration needed to...

7/3,K/4 (Item 2 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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02331034 110640530

#### Storage

Chudnow, Christine  
Computer Technology Review v22n2 PP: 11, 13 Feb 2002  
ISSN: 0278-9647 JRNL CODE: CTN  
WORD COUNT: 1335

...ABSTRACT: and moves the latter onto economical networked servers, such as a node with an attached **disk farm**.

...TEXT: optimize. This has a nasty impact on all sorts of database metrics, including response times, **access** to needed information, and service level agreements.

The simple answer is to move inactive data...

...issues are:

\* How do you define "inactive?" It's not as simple as a flat **time period**. For example, some data from a drug discovery trial may be three years old, but...

...question-how does the database know where the inactive data resides, and how can it **access** it immediately when it's needed?

Active Archiving

How do you tier storage and organize...

...and moves the latter onto economical networked servers, such as a node with an attached **disk farm**.

For example, Princeton Softech offers advanced database tools that automate the data distinction process according...

...way: "Let's take this to another level of abstraction-you are tiering performance of **access**, or directness of **accessibility** based on frequency of use. This idea of tiering storage has been around for a...

...computer scientists-automating the process of directing types of data into different holders by defining **access** patterns without human intervention. This work is based on patterns, not on predefined policies by ...



...complex. He pointed out that the main challenge for sensing and placing data based on **usage** patterns "is what's categorized as hot data or as cold data. It might change...

...relational data-- bases work with underlying storage software to keep the most active data easily **accessible**. Data management at this low level happens through hardware-- based interventions such as memory ...predicts the need for related data, then fetches and delivers the data to a fast **access** memory pool.

Micro level. This is the HSM concept, where applications such as Tivoli Storage...

...intelligent strategies via middleware for sending and predicting the data under its control by application **usage**. "You must have strategy up front, but you must also have the tools working for...

7/3,K/5 (Item 3 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01579811 02-30800  
**Storage for the true enterprise**  
Griffin, Jim  
Computer Technology Review v18n1 PP: 30-36 Jan 1998  
ISSN: 0278-9647 JRNL CODE: CTN  
WORD COUNT: 2117

...TEXT: truly enterprise class storage are simply too diverse to be satisfied by a single massive **disk farm** sitting on a raised floor. The 100GB databases running branch offices all over the world...

...At this block size, the transfer time of the block is more significant than the **access** time of the data, and a good measure of storage performance is transfer rate in...predict file server performance. NetBench also creates a synthetic load environment of multiple NT clients **accessing** files on an NT server. Total throughput is plotted against the number of clients on...

...will become obsolete, except for support of legacy servers. It will be in this same **time frame** that full storage node clustering will be achieved. scalability  
(Chart Omitted)

Captioned as: Fig 3...

7/3,K/6 (Item 4 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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01128623 97-78017  
**End user requirements in tape**  
Gresham, Todd  
Computer Technology Review v15n10 PP: 30, 42+ Oct 1995  
ISSN: 0278-9647 JRNL CODE: CTN  
WORD COUNT: 1120

...TEXT: Sufficient transfer rates to match the capabilities of host

computers available in the 1996-8 time frame ;

- \* Supported by popular backup/restore software packages;
- \* Data or Software Interchange.

The ability to interchange...

...open systems computing environment and COM industries.

Government, financial, insurance, and medical institutions using huge **disk farms** have **access** to most of their data online. A less expensive solution is to archive static data on tape and **access** it with robotics. StorageTek has been successful in this application with more than \$1.2...

...software control. As the disk drive fills with files, software migrates files that are seldom **accessed** to tape. If a file that resides on tape is requested, the software automatically locates...

...which allow cartridges to be retrieved quickly and unattended;

- \* Fast cartridge load times and file **access** times to minimize the delay experienced by users;
- \* High reliability from the drive to withstand high duty cycle **usage** required by this application;
- \* Supported by popular HSM software packages.

#### Tape Market Conclusions

The role...

...data storage in the computer environment is being challenged by the user's need to **access** increasing amounts of data online. Disk drive manufacturers are responding to this need by offering...

7/3,K/7 (Item 5 from file: 15)  
DIALOG(R) File 15:ABI/Inform(R)  
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00882237 95-31629

#### **DST 19mm tape in video-on-demand**

Stein, Marty

Computer Technology Review Supplement PP: 115-119 Spring/Summer 1994

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 2475

...ABSTRACT: choice type material to an economically sized disk array provides a balance between the random **access** characteristics of disk and the economic storage capacity of magnetic tape. To achieve the high...

...also allow large volume data transmission, at affordable rates, for many other applications. With easy **access** to these networks, new image and video-based business-to-business information services can begin...

...TEXT: acute convergence of powerful processors, inexpensive storage, video compression technology and the specter of abundant, **accessible** high speed networks has touched off a frenzy of new applications and marketing one-upsmanship...

...storing that much video data (with "broadcast quality") on hard disk (to make it network **accessible** ) may have cost \$300,000. Since then, however, dramatic improvements in video compression and reduced...

...compression to reduce the amount of data; high capacity with affordable storage to make it **accessible** ; and networks to deliver it. Just deliver something to me that I want to watch...

...install a superserver(s) or massively parallel computer capable of large aggregate data bandwidths, huge **disk farms** to store a few hundred compressed movie titles, and a switch to distribute the outgoing...

...out), and limited choice.

Because of the scope of the tests and the very aggressive **time frames** employed to get them off the ground, most of the tests focus on rapid system...

...the cost of disk storage continues to decline, making thousands of programs available requires **access** to Tbytes of information -- which still represents multi-million dollar investments if disks are used as the only means of **access** to the data. To provide this depth of choice in an economical way, high density...

...choice" type material to an economically sized disk array provides a balance between the random **access** characteristics of disk and the economic storage capacity of magnetic tape. Of course, to make a configuration like this practical at all, **access** to files on tape has to be very rapid and, once found, files need to...of the 25 Gbyte cartridges are configured as part of a robotic tape library, online **access** to 6.4 Tbytes (5,000 to 10,000 hours of program material) is provided...

...tape that evolved from video applications and tape that evolved from data storage applications is **accessibility** . In the data world, the recent use of tape was backup -- where information was stored...This approach saves a separate data loading step, frees up disk space by leaving infrequently **accessed** programs on tape, and -- as a fallout of the entire process -- provides backup for the...

...also allow large volume data transmission, at affordable rates, for many other applications. With easy **access** to these networks, new image and video based "business-to-business" information services can begin...

...shelves. Since all of these media can now be digitized and economically placed into computer **accessible** , online storage (magnetic tape libraries), new services that gather, catalog, and offer to distribute these...

...the end user. This type of balanced disk/tape configuration provides users with the random **access** speed of disk for the interactive operations and the efficient cost profile of magnetic tape...

...to transform their "intellectual property" to a form that will make it easily and affordably **accessible** to everyone. If a large portion of that property is in image or video form...

7/3,K/8 (Item 6 from file: 15)  
DIALOG(R)File 15:ABI/Inform(R)  
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00721229 93-70450

**VAX system/servers link effectively with DAT autoloaders**

Lavelle-Selbo, Patricia

Computer Technology Review v13n6 PP: 77-80 May 1993

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 2051

...ABSTRACT: mechanism, SCSI electronics, and a loader mechanism in one, low-profile integrated system, 2. random **access** mode, which enables files to be retrieved in less than one minute, and 3. high...

...TEXT: or wide area networks. The growing number of large networks and very large high capacity **disk farms** require a fully unattended, high capacity backup device. DAT autoloaders provide necessary capacity for backing...

...for any successful data backup system. Autoloaders operate automatically for unattended backup at non-peak **time periods**. DAT autoloaders offer removable offline storage, online sequential recording capability and easy **access** to multiple files.

DAT subsystems typically provide an embedded single-end SCSI controller for high...

...they are also well-suited for applications such as archival storage, unattended data collection, direct- **access** secondary storage for text, graphics or multimedia information of all types, and automated storage management...

...integrated system;

\* four-cartridge magazine, and optional magazines that hold 6 or 12 cartridges;

\* random **access** mode: DAT drive obtains commands from host through the complete SCSI interface;

\* random **access** mode enables files to be retrieved in less than 1 minute, making autoloaders practical for...

...RS-232 and a Small Computer Systems Interface-1 (SCSI-1) controller to provide random **access** capabilities. SCSI is a standard interface established to support peripheral equipment such as printers, tape...

...systems. With the enhanced SCSI-2 command set, loaders now are able to receive random **access** control signals over the standard SCSI bus controlling the loader mechanism as well as the...ready for use.

#### AUTOLOADER OPERATION

Most DAT autoloader devices offer two modes of operation: sequential **access** and random **access** (See Fig). (Figure omitted) In sequential operation, the internal electronics of the unit sequentially select...

...IN INQUIRY DATA

MODE SENSE/SELECT--TWO MEDIUM CHANGER DEVICE-SPECIFIC PAGES

In the random **access** mode, DAT autoloaders offer even more functionality. The autoloaders can automatically load any cassette based...

...directories, volumes) selected by the user. Special SCSI-2 commands must

be implemented to randomly **access** any cassettes in the magazine. Table 2 lists loader-specific SCSI commands.

DATA INTERCHANGE: DDS...

...performance, provide compatibility with existing storage command sets, facilitate data interchange, provide extremely fast random **access**, and take advantage of the helical scan recording method.

The DDS-DC format is a...

...grouping of client backups into a single job, maintenance of a backup history database to **access** previously saved files, and data confidentiality.

ULTRIX Backup utilities and VMS Backup also support DAT...

...utilities support all the newest functions of the DAT autoloaders, including multicartridge magazines and random **access** operations. These are only a few examples of

7/3,K/9 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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09703810 Supplier Number: 84645927 (USE FORMAT 7 FOR FULLTEXT)  
**MGIC standardizes on EMC technology: mortgage insurer migrates information from three disparate systems to SAN to increase flexibility. (Data Storage). (Brief Article)**

MacSweeney, Greg  
Insurance & Technology, v27, n5, p40(1)  
April, 2002  
Language: English Record Type: Fulltext  
Article Type: Brief Article  
Document Type: Magazine/Journal; Trade  
Word Count: 773

(USE FORMAT 7 FOR FULLTEXT)  
TEXT:  
...of the insurance industry, companies will go into contortions to make sure it is readily **accessible**.  
... its eMagic, com mortgage insurance services portal. "EMagic is a portal that originators use to **access** wholesale and vendor partners in the mortgage process," relates Sterling. "It gives originators a one...  
  
...technology, move data from three systems to a SAN, and also leverage the EMC storage **disk farms** to the fullest. "We have had unused disk space for a while," Sterling says. "Some...  
  
...set a goal to migrate all of the data to EMC in a four-month **time frame**. Supporting the migration was EMC software, including Symmetrix Data Migration Services.

"The migration needed to...

7/3,K/10 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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05943098 Supplier Number: 53197287 (USE FORMAT 7 FOR FULLTEXT)

**Novell Minimizes Downtime for NetWare. (High Availability Server) (Software Review) (Evaluation)**

Wong, William

PC Week, p59(1)

Nov 9, 1998

Language: English Record Type: Fulltext

Article Type: Evaluation

Document Type: Magazine/Journal; Tabloid; General Trade

Word Count: 902

... Inc.'s UltraLink 2000 UltraSCSI-to-SSA adapter. The 7133 is ideal for very large **disk farms**. It supports up to eight hosts and 64 drives--we used two hosts and eight...

...second server. This allows users to simply log out and log in again to gain **access** to any shared disk serviced by the cluster.

HASN handled server resynchronization when the failed...

...log-in process had to be repeated for each client so that each one could **access** the proper server.

For the other shared-disk configuration, we used Micronet Technology Inc.'s...

...s IP address and started the Web server, but Web browser clients were unable to **access** Web pages during the failover process. HASN's automatic IP reconnect helps with other applications...

...early next year, Novell officials said. Automatic NetWare client resynchronization is promised in the same **time frame**.

William Wong is a computer consultant and author. He can be reached at bwong@voicenet...

**7/3,K/11 (Item 3 from file: 16)**

DIALOG(R)File 16:Gale Group PROMT(R)

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03863371 Supplier Number: 45543129 (USE FORMAT 7 FOR FULLTEXT)

**TEMPERATURE RISING ON MARKET FOR REDUNDANT ARRAYS**

VARbusiness, p59

May 15, 1995

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1310

... provide the tools to manage data across the different server environments, i.e., implement a **disk farm**. Roy notes that 'clustering' is also heating up RAID sales by dramatically conserving bandwidth. 'Clustering...

...VARs have to understand their customers' workloads and application environments - their files, block sizes and **usage** patterns. Tracing a compute's **usage** patterns is difficult, often leaving VARs guessing, which RAID level is appropriate.

'Users don't...

...it won't necessarily shorten your sales cycle. On a high-capacity array, the typical **time frame** is 45 to 90 days. On a **disk farm**, it's more often 90 to 180 days because of the six-figure cost involved...

7/3,K/12 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
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03618433 Supplier Number: 45097476 (USE FORMAT 7 FOR FULLTEXT)

**Video demands capacity**

Electronic Engineering Times, p61  
Oct 31, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1365

... on digital systems, and the highly publicized video-on-demand systems will rely on large **disk farms**. If the high-definition-TV specification ever becomes a reality, it will provide a super...

...the viewer will notice.

Error handling is another job that must be performed within that **time frame**. Luckily, one of the easiest and most efficient ways to avoid interrupting the data stream...storage space can be reduced. That's fairly easy to do, since drives can quickly **access** different portions of the movie just as they **access** different parts of a data file.

To date, array vendors have tried to avoid...

7/3,K/13 (Item 1 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
(c) 2005 The Dialog Corp. All rts. reserv.

01300459 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**SunGard Recovery Services Delivers Leading-Edge Recovery Solution to NYCE Corporation**

PR NEWSWIRE  
April 01, 1998 11:44  
JOURNAL CODE: WPRW LANGUAGE: English RECORD TYPE: FULLTEXT  
WORD COUNT: 584

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...that NYCE Corporation has implemented an advanced recovery solution intended to dramatically improve the recovery **time frame** for the NYCE Network, the largest automated teller machine (ATM) and debit point-of-sale

... environment and remote backup site.

All NYCE Network data is stored in a secure, dedicated "**disk farm**" at the Philadelphia MegaCenter. SunGard also stores all current software and databases required for operation...

... division. For further information on SunGard Recovery Services, the company's home page can be **accessed** at [http:](http://)

7/3,K/14 (Item 2 from file: 20)  
DIALOG(R)File 20:Dialog Global Reporter  
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01297221 (USE FORMAT 7 OR 9 FOR FULLTEXT)

**NYCE Corporation Implements Leading-Edge Recovery Solution With SunGard Recovery Services**

BUSINESS WIRE

April 01, 1998 8:39

JOURNAL CODE: WBWE LANGUAGE: English RECORD TYPE: FULLTEXT

WORD COUNT: 616

(USE FORMAT 7 OR 9 FOR FULLTEXT)

... announced that it has implemented an advanced recovery solution intended to dramatically improve the recovery **time frame** for the NYCE Network, the largest automated teller machine (ATM) and debit point-of-sale ...

...environment and remote backup site. All NYCE Network data is stored in a secure, dedicated "**disk farm**" at the Philadelphia MegaCenter. SunGard also stores all current software and databases required for operation...

... and bill payment solutions, ATM terminal driving and monitoring, card authorization and management, and gateway **access**. The corporation also operates the NYCE Network, the largest regional electronic funds transfer (EFT) network...

... division. For further information on SunGard Recovery Services, the company's home page can be **accessed** at http:

7/3,K/15 (Item 1 from file: 47)

DIALOG(R)File 47:Gale Group Magazine DB(TM)

(c) 2005 The Gale group. All rts. reserv.

05262027 SUPPLIER NUMBER: 53197287 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Novell Minimizes Downtime for NetWare. (High Availability Server) (Software Review) (Evaluation)**

Wong, William

PC Week, 59(1)

Nov 9, 1998

DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 951 LINE COUNT: 00079

... Inc.'s UltraLink 2000 UltraSCSI-to-SSA adapter. The 7133 is ideal for very large **disk farms**. It supports up to eight hosts and 64 drives--we used two hosts and eight...

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...early next year, Novell officials said. Automatic NetWare client resynchronization is promised in the same **time frame**.

William Wong is a computer consultant and author. He can be reached at bwong@voicenet...

Sylvia Keys

11-May-05 10:46 AM



7/3,K/16 (Item 2 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
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03223247 SUPPLIER NUMBER: 07249653 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**IBM's NFS alternative. (Network File System)**  
Kerr, Susan  
Datamation, v34, n26, p63(3)  
Jan 1, 1989  
ISSN: 1062-8363 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1860 LINE COUNT: 00146

... the work between CMU and IBM began.  
Although Spector admits that the original five-year **time frame**  
was overly optimistic, CMU has already seen some results. At least 8,000  
user accounts...

...a member of the file system--AFS has always demanded that the user be  
authorized.

**Access** lists specify which users can perform which type of  
operations. Additionally, AFS groups files into...cases, intermediary  
servers such as 9370s and RTs will be installed. Currently, students and  
teachers **access** the 3090s through standard terminal emulation, a  
cumbersome process.

The University of Michigan is more...  
...the 3090 is that it is a massive I/O device and has a vast **disk farm**  
," says Ted Hanss, project manager of the University of Michigan's  
Institutional File System, the...

...DESCRIPTORS: **Usage**  
...TRADE NAMES: **Usage ;**

7/3,K/17 (Item 1 from file: 88)  
DIALOG(R)File 88:Gale Group Business A.R.T.S.  
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02246928 SUPPLIER NUMBER: 07249653  
**IBM's NFS alternative. (Network File System)**  
Kerr, Susan  
Datamation, v34, n26, p63(3)  
Jan 1, 1989  
ISSN: 1062-8363 LANGUAGE: English RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 1507 LINE COUNT: 00146

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**7/3,K/18 (Item 1 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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10604955 SUPPLIER NUMBER: 53197287 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Novell Minimizes Downtime for NetWare. (High Availability Server) (Software Review) (Evaluation)**

Wong, William  
PC Week, 59(1)  
Nov 9, 1998

DOCUMENT TYPE: Evaluation ISSN: 0740-1604 LANGUAGE: English  
RECORD TYPE: Fulltext; Abstract  
WORD COUNT: 951 LINE COUNT: 00079

... Inc.'s UltraLink 2000 UltraSCSI-to-SSA adapter. The 7133 is ideal for very large **disk farms**. It supports up to eight hosts and 64 drives--we used two hosts and eight...

...second server. This allows users to simply log out and log in again to gain **access** to any shared disk serviced by the cluster.

HASN handled server resynchronization when the failed...

...log-in process had to be repeated for each client so that each one could **access** the proper server.

For the other shared-disk configuration, we used Micronet Technology Inc.'s...

...s IP address and started the Web server, but Web browser clients were unable to **access** Web pages during the failover process. HASN's automatic IP reconnect helps with other applications...

...early next year, Novell officials said. Automatic NetWare client resynchronization is promised in the same **time frame**.

William Wong is a computer consultant and author. He can be reached at bwong@voicenet...

**7/3,K/19 (Item 2 from file: 148)**  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
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10098873 SUPPLIER NUMBER: 20457563 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**SunGard Recovery Services Delivers Leading-Edge Recovery Solution to NYCE Corporation**

PR Newswire, p401PHW015  
April 1, 1998

LANGUAGE: English RECORD TYPE: Fulltext  
WORD COUNT: 867 LINE COUNT: 00080

... that NYCE Corporation has implemented an advanced recovery solution intended to dramatically improve the recovery **time frame** for the NYCE Network, the largest automated teller machine (ATM) and debit point-of-sale

...

...environment and remote backup site.

All NYCE Network data is stored in a secure, dedicated " **disk farm** " at the Philadelphia MegaCenter. SunGard also stores all current software and databases required for operation...

...division. For further information on SunGard Recovery Services, the company's home page can be **accessed** at <http://recovery.sungard.com>.

About NYCE Corporation

Based in Woodcliff Lake, New Jersey, NYCE...

...and bill payment solutions, ATM terminal driving and monitoring, card authorization and management, and gateway **access** . The corporation also operates the NYCE Network, the largest regional electronic funds transfer (EFT) network...

7/3,K/20 (Item 3 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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10093260 SUPPLIER NUMBER: 20447054 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**NYCE Corporation Implements Leading-Edge Recovery Solution With SunGard Recovery Services.**

Business Wire, p4011071

April 1, 1998

LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 769 LINE COUNT: 00072

... announced that it has implemented an advanced recovery solution intended to dramatically improve the recovery **time frame** for the NYCE Network, the largest automated teller machine (ATM) and debit point-of-sale ...

...environment and remote backup site.

All NYCE Network data is stored in a secure, dedicated " **disk farm** " at the Philadelphia MegaCenter. SunGard also stores all current software and databases required for operation...

...and bill payment solutions, ATM terminal driving and monitoring, card authorization and management, and gateway **access** . The corporation also operates the NYCE Network, the largest regional electronic funds transfer (EFT) network...

...division. For further information on SunGard Recovery Services, the company's home page can be **accessed** at <http://recovery.sungard.com>.

CONTACT: NYCE Corporation

Cheryl Calo, 201/476-5726

e-mail...

7/3,K/21 (Item 4 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB  
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08017452 SUPPLIER NUMBER: 17300048 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Temperature rising on market for redundant arrays; as mission-critical data proliferates, the RAID market boils.**

Balch, Karen

VARbusiness, v11, n8, p59(2)

May 15, 1995

ISSN: 0894-5802

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 1384

LINE COUNT: 00108

... provide the tools to manage data across the different server environments, i.e., implement a **disk farm**. Roy notes that "clustering" is also heating up RAID sales by dramatically conserving bandwidth. "Clustering...VARs have to understand their customers' workloads and application environments-their files, block sizes and **usage** patterns. Tracing a computer's **usage** patterns is difficult, often leaving VARs guessing, which RAID level is appropriate.

"Users don't...

...it won't necessarily shorten your sales cycle. On a high-capacity array, the typical **time frame** is 45 to 90 days. On a **disk farm**, it's more often 90 to 180 days because of the six-figure cost involved...

7/3,K/22 (Item 5 from file: 148)

DIALOG(R)File 148:Gale Group Trade & Industry DB

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03851710 SUPPLIER NUMBER: 07249653 (USE FORMAT 7 OR 9 FOR FULL TEXT)

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Kerr, Susan

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WORD COUNT: 1860

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...DESCRIPTORS: **Usage**

...TRADE NAMES: **Usage ;**

7/3,K/23 (Item 1 from file: 275)

DIALOG(R)File 275:Gale Group Computer DB(TM)

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02237596 SUPPLIER NUMBER: 53197287 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**Novell Minimizes Downtime for NetWare. (High Availability Server) (Software Review) (Evaluation)**

Wong, William

Sylvia Keys

11-May-05 10:46 AM

PC Week, 59(1)

Nov 9, 1998

DOCUMENT TYPE: Evaluation

ISSN: 0740-1604

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 951 LINE COUNT: 00079

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...s IP address and started the Web server, but Web browser clients were unable to **access** Web pages during the failover process. HASN's automatic IP reconnect helps with other applications...

...early next year, Novell officials said. Automatic NetWare client resynchronization is promised in the same **time frame**.

William Wong is a computer consultant and author. He can be reached at bwong@voicenet...

7/3,K/24 (Item 2 from file: 275)

DIALOG(R) File 275:Gale Group Computer DB(TM)

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01496444 SUPPLIER NUMBER: 11745312 (USE FORMAT 7 OR 9 FOR FULL TEXT)

**VAX 4000: the performance alternative. (DEC VAX 4000 minicomputer)**

Pokorni, Miroslav

DEC Professional, v11, n1, p68(4)

Jan, 1992

ISSN: 0744-9216

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2779 LINE COUNT: 00208

...ABSTRACT: and better connectivity options for the VAX 4000. A technical discussion of memory architecture and **access** is presented. One way to improve memory performance is to apply fat page mode on...

...models. CI controllers such as Micro Technology's CIQBA link directly into VAXclusters and can **access** networked resources without the performance bottlenecks inherent in Ethernet. Use of DSSI input/output interfaces...

... is implemented for the first time in a lower end VAX machine. Page mode memory **access** and error-correcting code (ECC), first introduced to low-end systems with the MicroVAX 3000...

...on the VAX 4000.

Memory Subsystem

A typical memory subsystem consists of several memory boards. **Access** to each board in the subsystem is control by the board address, either directly or...

...are organized into two-dimensional matrices having rows and columns. A

unique memory bank is **accessed** by applying one active row address strobe (RAS) and one active column address strobe (CAS...

...memory chips used in contemporary designs.

The memory technology most frequently used is dynamic random **access** memory (DRAM). Storage locations in such a chip are organized again in a two-dimensional...

...address, is not required after the leading edge of its strobe signal.

If the memory **access** is a read cycle, data becomes available shortly after the column strobe. In the case...

...The length of hold time in a write cycle is comparable to that of CAS **access** time in a read cycle. However, the expiration of hold or **access** time does not release DRAM for a new cycle. An additional waiting/do nothing period...on the matrix organization of memory chips. When a memory location is addressed, the following **access** in the same row of memory matrix does not need to repeat the row address...

...possible to begin the new memory cycle within the page of a bank, while the **access** of the other, interleaved bank is still in progress. Combining the interleaving and fast page mode allows the **access** of four memory words in a **time period** required to execute two single memory cycles, providing a 50 percent time reduction.

When memory...

...RS/6000 are more of an exception than a trend.

If cycle interleaving, page mode **access** and ECCs were each incorporated separately, memory subsystem performance would be improved. However, you need...

...about memory bus saturation to rest. Typically, there is enough time to double or triple **access**.

Although Digital inc incorporated memory interleaving into some of its workstations, the VAX 4000 s...into a CI-based VAX-cluster. This interconnect, which plugs into a Q-bus, can **access** cluster resources, including the HSC **disk farm**.

When it comes to I/O, how does the VAX 4000 stack up against the...

...disks, the XMI bus could handle blocks of data in and out of the entire **disk farm** better than the same application running disks directly off the Q-bus. However, most businesses...

...TRADE NAMES: **Usage**

7/3,K/25 (Item 3 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
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01366949 SUPPLIER NUMBER: 08625598 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**IBM: strategies for the 90's. (includes related article on IBM's plans to consolidate its operating systems)**  
Snider, Harold  
Canadian Datasystems, v22, n6, p14(2)  
June, 1990  
ISSN: 0008-3364 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT: 1327 LINE COUNT: 00101

...ABSTRACT: by individual applications. The system optimizes I/O by storing most-used data in quickly **accessed** storage, such as main memory,

while storing seldom used data on slower devices, such as...  
... is why in some large insurance companis and banks, the disk room  
looks like a **disk farm** , Complete with its own artificial climate.  
Back to the Future II  
To solve this problem...

...information is used a lot, it will reside in main storage where it can  
be **accessed** very quickly; if used less frequently, it might be in disk  
cache or on a...

...all that automatically.

As long as your application programs are referring to specific disks  
to **access** the data, you won't be able to benefit from any of IBM's new...  
increase the system's throughput. In this way we get away from waiting for  
disk **access** , allowing IBM to implement its vision of staging both  
distributed data and applications processing.

What...

...having put in place the pieces of a new computing environment in such a  
short **time frame** . In 1990 all the hardware is essentially ready to meet  
IBM's objectives, with the...

7/3,K/26 (Item 1 from file: 340)  
DIALOG(R)File 340:CLAIMS(R)/US Patent  
(c) 2005 IFI/CLAIMS(R). All rts. reserv.

2362048 3329171

**E/METHOD AND APPARATUS FOR UPDATING APPLICATION DATABASES USED IN A  
DISTRIBUTED TRANSACTION PROCESSING ENVIRONMENT**

Inventors: Rago Vito (US)

Assignee: Telcordia Technologies Inc

Assignee Code: 14643 (REASSIGNED - See file 123 for details)

Publication Number	Kind	Date	Application Number	Date
US 5212789	A	19930518	US 89420533	19891012
(Cited in 058 later patents)				
Priority Applic:			US 89420533	19891012
Calculated Expiration: 20100518				

Abstract: ...new version, of the application databases exist within a  
memory device, e.g. a shared **disk farm** . After the start of a 'transfer  
**time period** ', all transactional messages associated with transactions  
that were initiated after the start of this period...

Exemplary Claim: ...within a memory device associated with a first node to  
a second version thereof and **accessible** by a processor connected to a  
second node, said first and second nodes being connected...

...each first transaction that has been initiated prior to the start of a  
predefined transfer **time period** using the first version of said  
database regardless of whether any of the transactional messages...

...version of said database onto said memory device prior to the start of  
said transfer **time period** ; initiating said transfer **time period** ;  
processing transactional messages of each second transaction that is  
initiated after the start and before the expiration of said transfer  
**time period** using said second version of said data base; said

processing steps each further comprising the...

...defined field in succeeding transactional messages, whereby the echoed pre-defined field assures that sequential **access** for successive transactional messages of a first and second transaction are processed only by said...

Non-exemplary Claims: ...first and second versions of the database in an on-line condition during said transfer **time period** .

...

...a first version to a second version a database residing within a memory device and **accessible** by a plurality of processors connected to a network for conversational transaction processing and said...

...first transaction that has been initiated prior to a start of a pre-defined transfer **time period** using the first version of said database regardless of whether any of the transactional messages...

...version of said database onto said memory device prior to the start of said transfer **time period** ; initiating said transfer **time period** ; and processing transactional messages, received from said originating node, of each second transaction that is...

...conversational transaction processing system having a plurality of processors connected to a network and which **access** information from a database residing within a memory device to incrementally process a conversation transaction...

...each first transaction that has been initiated prior to a start of pre-defined transfer **time period** using the first version of said database regardless of whether any of the transactional messages of any of the first transactions occurs after the start of a transfer **time period** ; loading the second version of said database onto said memory device prior to the start of the transfer **time period** ; initiating the transfer **time period** , said transfer **time period** being longer than the time required for processing any transactions using the first version of...

...first and second version of the database in an on-line condition during said transfer **time period** ; at said responding node, second ... second transaction that is initiated after the start and before the expiration of the transfer **time period** using the second version of said database such that said first and second transactions are...

...and deleting the first version of said database from said memory device after the transfer **time period** has expired; and the method further comprising the steps of, at said responding node; placing...

...9. In a conversation transaction processing system having a processor which **accesses** information from a database residing within a memory device to incrementally process a conversational transaction...

...conversation transaction processing system having a plurality of processors connected to a network and which **access** information from a database residing within a memory device to incrementally process a conversational transaction...

...first transaction that has been initiated prior to a start of a pre-defined transfer **time period** using the first version of said database regardless of whether any of the first transactions occurs after the start of a transfer **time period** ; means for loading the



second version of said database onto said memory device prior to the start of the transfer period; means for initiating the transfer **time period** , said ...second versions of the database being maintained in an on-line condition during said transfer **time period** ; second means at said responding node for processing each transactional message of each second transaction that is initiated after the start and before the expiration of the transfer **time period** using the second version of said database whereby said first and second transactions are processed only using said first or second versions, respectively, of said database and sequential **access** into the first and second versions of said versions of said database for successive transactional...  
 ...for deleting the first version of said database from said memory device after the transfer **time period** has expired; said first and second processing means each further comprises means for setting a...

7/3,K/27 (Item 1 from file: 348)  
 DIALOG(R)File 348:EUROPEAN PATENTS  
 (c) 2005 European Patent Office. All rts. reserv.

01103595

**Automatic video monitoring system**  
**Automatische Videouberwachungsanlage**  
**Systeme automatique de surveillance video**

PATENT ASSIGNEE:

TEXAS INSTRUMENTS INCORPORATED, (279074), P.O. Box 655474, 13500 Central Expressway, Dallas, TX 75265, (US), (Proprietor designated states: all)  
 INVENTOR:

Courtney, Jonathan D., 2303 Flat Creek Drive, Richardson, TX, (US)

LEGAL REPRESENTATIVE:

Holt, Michael (50425), Texas Instruments Ltd., PO Box 5069, Northampton, Northamptonshire NN4 7ZE, (GB)

PATENT (CC, No, Kind, Date): EP 967584 A2 991229 (Basic)  
 EP 967584 A3 001129  
 EP 967584 B1 041020

APPLICATION (CC, No, Date): EP 99201370 990429;

PRIORITY (CC, No, Date): US 83644 P 980430; US 91263 P 980629; US 83711 P 980430; US 83718 P 980430

DESIGNATED STATES: DE; FR; GB; IT; NL

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G08B-013/194; G08B-015/00

ABSTRACT WORD COUNT: 130

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	199952	910
CLAIMS B	(English)	200443	388
CLAIMS B	(German)	200443	365
CLAIMS B	(French)	200443	434
SPEC A	(English)	199952	17440
SPEC B	(English)	200443	16439
Total word count - document A			18353
Total word count - document B			17626
Total word count - documents A + B			35979

...ABSTRACT camera. The camera unit is network-ready (14), so that a remote workstation (13) can **access** the images and other information saved in

the camera unit.

...SPECIFICATION upon capture. The digital data is then saved in a conventional database (such as a **disk farm** backed up by a tape juke box). This approach is relatively expensive, requires a substantial...

...However, even the most sophisticated home security systems are limited by rudimentary provisions for remote **access** by the property owner. Further, false alarms are relatively common. Even if the owner is...

...a need has arisen for a cost-effective method and apparatus for monitoring which permit **access** and/or control from virtually any remote location.

According to one form of the present...directly to the network 14, and the stored information which was discussed above can be **accessed** and viewed by a person using a web browser on a remote unit such as...

...are each a WWW-compatible file in hypertext mark-up language (HTML) format, and facilitate **access** to other information stored in the directory structure of FIGURE 7. The MASTER.HTML file...

...the LOGLIST.HTML files are each an HTML shell which invokes an applet that facilitates **access** to files within the directory containing that particular LOGLIST.HTML file.

The directory 92 corresponds...

...used. In FIGURE 8, the user has invoked the WWW capabilities of the Internet to **access** the WWW-compatible file MASTER.HTML in the directory 91 (FIGURE 7), which in turn has used the various LOGLIST.HTML files in the subdirectories 92 and 93 to **access** information in each of the respective LOGLIST files. The MASTER.HTML file may optionally require an operator to provide a valid password before giving the operator **access** to the information stored on the hard disk drive 34.

At the top of the...

...timestamp information, so that an operator can rapidly identify the events of interest within a **time frame** of interest, and can quickly and easily review those events.

Yet another advantage is the...

...in an observed area. Another advantage is that the use of a web browser to **access** information logged by the system permits a person to **access** the information from virtually anywhere that a computer is available, including a WWW-compatible cellular...a document or web page which is in HTML format, and which can thus be **accessed** through the Internet. In this regard, the portable unit 346 includes a manufactured-installed browser program, which is capable of **accessing**, downloading and displaying on the display 351 an HTML page or document obtained through the...

...388, in order to effect the associated function. Similarly, if the operator happens to be **accessing** this HTML page from some other remote computer, and if that computer has a mouse...

...FIGURE 14. The operator may then use the browser provided in the unit 346 to **access** and download the HTML page generated by the computer 324, in order to obtain a...sent to the portable unit. The person in possession of the portable unit can then **access** images from a camera in the monitored area, in order to determine whether there is...

...the video cameras is provided in a document in HTML format, which can be

easily **accessed** from the portable unit, or from any convenient computer having a WWW-compatible browser. Yet...

...SPECIFICATION upon capture. The digital data is then saved in a conventional database (such as a **disk farm** backed up by a tape juke box). This approach is relatively expensive, requires a substantial...

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having a WWW-compatible browser. Yet...

7/3,K/28 (Item 1 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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01025110 \*\*Image available\*\*

**ELECTRONIC BUYING GUIDE ARCHITECTURE**  
**ARCHITECTURE DE GUIDE D'ACHAT ELECTRONIQUE**

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200355217 A1 20030703 (WO 0355217)  
Application: WO 2002US38879 20021206 (PCT/WO US0238879)  
Priority Application: US 2001340071 20011207

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SK SL TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SI SK  
TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

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Fulltext Word Count: 16539

Fulltext Availability:

Detailed Description  
Claims

Detailed Description

... emerged as a significant

interactive medium for entertainment, communications, research, education  
and ecommerce. However, Internet **access** generally requires a personal  
computer, and some consumers may have little need or desire for...band  
data path (IDP) and an out-of-band data path (ODP).

DHCTs can then **access** the BFS in much the same way that a PC **accesses**  
a hard drive.

[008] The IDP is a 27 Mbps data channel that the DHCTs...loading a new  
application on the DHCT as well as in any situation where fast **access**  
to the BFS is required. The [DP is one-way; no programming content can be

009] The ODP is a data channel that can be **accessed** while programming content is being sent to the DHCT. The two components that make up...STB 18 directly or, more typically, by infrared link 85. The viewer can thus conveniently **access** the application via a remote control button while watching television.

[0034] As will be explained...such as Microsoft Message Queue (MSMQ). CAS 16 utilizes at least one Ethernet card to **access** HEDS 14 and at least one asynchronous transfer mode (ATM) card to **access** IDBIDS 26 via an ATM switch, such as a Xylan ATM

8

Docket No.: 301 have one more CAS 16 than is needed to handle **usage** so that in the event of a failure of one CAS, the overall system will...The video on demand server also stores product video clips so that they can be **accessed** in an on-demand fashion by the set top box when the user indicates he...be able to provide that key to the VOID server 1 000 in order to **access** the correct video.

[0047] The final responsibility of the broadcast server function of CAS 16...message queuing functionality; and (iii) database process 204, which processes client requests and provides database **access** .

[0052] Socket server process 200 has at least two functions: a receive service, ServerRX 206...Oracle RDBMS. The use of an RDBMS is desirable because an RDBMS allows for scalable **access** to large amounts of data. HEDS 14 preferably has at least one Ethernet card to...

0057] Referring to Figure 3, database program 216 submits requests to HEDS 14 via remote **access** software 302, such as Oracle SQL\*NET. The requests include information for directing HEDS 14...server 20 can be a large, highly available UN IX-based server with a separate **disk farm** and an RDBMS. Scheduling system 30 can be a UNIX-based server with an RDBMS.

...software package. Data warehouse 34 can be a large UNIX-based server with a separate **disk farm** and an RDBMS. Each reporting system can be a Windows NT collocation area of a...Docket No.: 301 1 -1 OPCT

File No. 1164.4138OA00

identifier.

[0063] Scheduling system 30 **accesses** raw vendor product lists from CCP server 20, and provides to vendors a web-based...

#### Claim

... commerce related

video program;

the first commerce related video program is broadcast during a first **time period** and the second commerce related video program is broadcast during a second **time period** different than and not overlapping with the first **time period** .

9 A method for performing interactive television commerce over a video broadcast distribution network having...first in-band channel, the first commerce related video program is broadcast during a first **time period** and the second

commerce related video program is broadcast during a second **time period**

different than and not overlapping with the first **time period** .

16 The method according to claim 15, wherein:

wherein the second commerce related video program...commerce related

55 The user interface according to claim 46, further comprising:  
a displayable second commerce related...

7/3,K/29 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01017192 \*\*Image available\*\*

SYSTEMS AND METHODS FOR CONTROLLING DEVICES OVER A NETWORK  
SYSTEMES ET PROCEDES PERMETTANT DE COMMANDER DES DISPOSITIFS SUR UN RESEAU  
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Patent and Priority Information (Country, Number, Date):

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Application: WO 2002US37443 20021121 (PCT/WO US0237443)

Priority Application: US 2001332561 20011121; US 2002355178 20020208

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SC SD SE SG  
SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

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Fulltext Availability:

Detailed Description

Claims

Detailed Description

... sensor(s), and/or other sensors.

5 [00221 Also disclosed is a method for controlling **access** of at least  
one user to at least one camera, the **access** provided over a network,  
the method including providing at least two user levels, associating a...

...levels, receiving a request from at least one of the at least one user  
for **access** to one of the at least one camera, associating the  
requesting user(s) with at...privileges with the user levels can include

7/3,K/30 (Item 3 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00993669 \*\*Image available\*\*

**DATABASE INTERFACE ARCHITECTURE WITH TIME - BASED LOAD BALANCING IN A REAL-TIME ENVIRONMENT**

**ARCHITECTURE D'INTERFACE DE BASE DE DONNEES A EQUILIBRE DE CHARGE TEMPOREL DANS UN ENVIRONNEMENT EN TEMPS REEL**

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Patent and Priority Information (Country, Number, Date):

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Priority Application: US 2001322027 20010913

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prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LU MC NL PT SE SK TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

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(EA) AM AZ BY KG KZ MD RU TJ TM

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Filing Language: English

Fulltext Word Count: 4701

**DATABASE INTERFACE ARCHITECTURE WITH TIME - BASED LOAD BALANCING IN A REAL-TIME ENVIRONMENT**

Fulltext Availability:

Detailed Description

Claims

Detailed Description

**DATABASE INTERFACE ARCHITECTURE WITH TIME - BASED  
LOAD BALANCING IN A REAL-TIME ENVIRONMENT**

Field of the Invention

The invention is directed...

...low load conditions.

I 0 Background of the Invention

In client-server environments that require access to a database,  
daemons are typically provided to handle the client' ...after updating

the record in the database.

The buffer memory can be implemented as random **access** memory (RAM), whereas the intermediate storage may include various types of mass storage, such as...intermediate storage device 15. The buffer memory 14 can be volatile memory, such as Random **Access** Memory (RAM). The intermediate storage device 15 cooperates with database 18 and is connected to...When clients 12 send requests via network 100 to the server 19 which requires **access** to database 18, the requests received at the network interface 11 are queued and...flush of) the buffer memory 14, regardless of the timestamp on the buffer memory.

Memory **access** intensive applications that use large amounts of virtual memory may obtain performance improvements by using...operate independently and asynchronously from the worker threads 13, so that bottlenecks in the database **access** do not affect the interaction between the clients 12 and the server 19.

In some...timebased load-balancing process 20. Process 20 checks first if a request for a database **access** from a client 12 was received at the server 19, step 22. If such request...program, such as Microsoft Internet Explorer or Netscape Navigator, to provide a user interface for **access** to the Internet 100. Although the personal computer is a typical client 12, the client...server. Such servers may further include one or more mass storage devices such as a **disk farm** or a redundant array of independent disk ("RAED") system for additional storage and data integrity...

#### Claim

... computer system of claim I 1, wherein the buffer memory comprises a 10 random **access** memory (RAM) and the intermediate storage comprises a disk storage.

13 A database server for...

7/3,K/31 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00961848 \*\*Image available\*\*

#### NETWORK SECURITY

#### SECURITE RESEAU

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Patent and Priority Information (Country, Number, Date):

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Priority Application: US 2001861001 20010518; US 200243654 20020110

Designated States:

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

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Publication Language: English

Filing Language: English

Fulltext Word Count: 34891

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... systems and networks have been closed and protected to an environment that can be open, **accessible** and by its very nature, at risk. The Internet is assumed to be unsecured; the...Detection Systems (IDS) and Firewalls to protect their systems. These security devices attempt to prevent **access** by potential intruders. A side effect of these devices can be to also block ...As only computers that are found can be analyzed for vulnerabilities, not all of the **access** points of the network can be checked for security holes. Secondly, the security device can block **access** in mid-process of analyzing a computer for vulnerabilities. This can result in only partial...addresses many issues; but leaves other issues unresolved such as the creation of useful and **accessible** reporting formats, for example. There are many other unresolved ...of testing tools, a good library of report modules associated with vulnerabilities, generation of useful **accessible** reports, etc.

Outsourcing some or all of this functionality can save a company 2-5... test 516 from the Test Logic module 304. This information can be then used to **access** the Tool Management module 314 where additional information, such as tool location 3 1 8...512, described elsewhere in this specification, with no need to rewrite the tools 514. This **usage** gives a preferred embodiment an advantage in production. For example, hacker tools 514 that are...let an administrator know, if a cyber attacker were to perform an attack and gain **access** to network 1002, what other machines, networks or resources the attacker would have **access** to. In addition, internal assessments can be conducted with administrative privileges thereby facilitating audit of...the web server would be running on the loop-back device, it could only be **accessible** by the local machine. Some options of local configurations might include, for example: IP Stack...no services running means that there is no opportunity for an external attacker to gain **access** to the Tester 502. In addition, there are several processes that are designed to keep...that might feature strong encryption for authentication, logging, and dial-back capabilities to limit unauthorized **access**. This modem could

7/3,K/31 (Item 4 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00961848 \*\*Image available\*\*

**NETWORK SECURITY**

**SECURITE RESEAU**

Patent Applicant/Assignee:

ACHILLES GUARD INC, CRITICAL WATCH, 6060 North Central Expressway, Suite 560, Dallas, TX 75206, US, US (Residence), US (Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

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SCHUYVER Joey Don Van, Critical Watch, 6060 North Central Expressway, Suite 560, Dallas, TX 75206, US, US (Residence), US (Nationality), (Designated only for: US)

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200296013 A1 20021128 (WO 0296013)

Application: WO 2002US15289 20020515 (PCT/WO US0215289)

Priority Application: US 2001861001 20010518; US 200243654 20020110

Designated States:

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 34891

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... systems and networks have been closed and protected to an environment that can be open, **accessible** and by its very nature, at risk. The Internet is assumed to be unsecured; the...Detection Systems (IDS) and Firewalls to protect their systems. These security devices attempt to prevent **access** by potential intruders. A side effect of these devices can be to also block ...As only computers that are found can be analyzed for vulnerabilities, not all of the **access** points of the network can be checked for security holes. Secondly, the security device can block **access** in mid-process of analyzing a computer for vulnerabilities. This can result in only partial...addresses many issues, but leaves other

issues unresolved such as the creation of useful and **accessible** reporting formats, for example. There are many other unresolved ...of testing tools, a good library of report modules associated with vulnerabilities, generation of useful **accessible** reports, etc.

Outsourcing some or all of this functionality can save a company 2-5... test 516 from the Test Logic module 304. This information can be then used to **access** the Tool Management module 314 where additional information, such as tool location 3 1 8...512, described elsewhere in this specification, with no need to rewrite the tools 514. This **usage** gives a preferred embodiment an advantage in production. For example, hacker tools 514 that are...let an administrator know, if a cyber attacker were to perform an attack and gain **access** to network 1002, what other machines, networks or resources the attacker would have **access** to. In addition, internal assessments can be conducted with administrative privileges thereby facilitating audit of...the web server would be running on the loop-back device, it could only be **accessible** by the local machine. Some options of local configurations might include, for example: IP Stack...no services running means that there is no opportunity for an external attacker to gain **access** to the Tester 502. In addition, there are several processes that are designed to keep...that, might feature strong encryption for authentication, logging, and dial-back capabilities to limit unauthorized **access**. This modem could be used, for example, in emergencies when the operating system is not... file as a ' useable drive. The can prevent for example an unauthorized attacker with physical **access** to the Tester 502 from simply removing the drive, placing it into another machine and reading the contents. In that case, the only information an attacker might have **access** to might be the standardbuild of whatever operating system the Tester 502 happened to be...can only be logged on locally (and not for example through the Internet) via physical **access** or the out-of-band modem. In this scenario, all other accounts have no passwords. **Access** would be controlled by means of public/private key technology that provides identification, authentication, and...506 can take milliseconds to perform. Tester 502 resources that can be checked include memory **usage**, processor **usage**, and disk **usage**. If the tool 514 does not exist or is not the correct version, then the...servers, employee machines, printers, routers, development computers, firewalls, and other computers or devices that are **accessible** from the testing devices. In host profiling, information about the host(s) being assessed is...recurrence information - tracks such as scan # the vulnerability first appeared on, if not new and **time periods** when the vulnerability was secured, if any. Inventory of services includes lists and profiles in...other such records, thus nullifying the capability to audit activities.

"Loss of Ability to Control **Access** " is the loss of the ability to control laccess .

Users are able to elevate their permissions beyond their authorized status.

"Unnecessary Disclosure of Information...trend totals are shown in FIG. 24 together with the following table.

Total Total

Assessment **Time Period** Vulnerabilities Warnings

Scan 1 Aug 7 2001 -Aug 7 2001 @9 40

12:30PM 03...8 vulnerabilities (if exploited) could cause Monitoring Failure

vulnerabilities (if exploited) could cause Loss of **Access** Control

A summary of the skill levels needed to exploit the current vulnerabilities is given...Known Services  
https Hyper Text Transfer Protocol over SSL  
Port: 443 TCP  
Function: Provides external **access** to web servers with a layer of encryption. Most commonly used as a "secure" protocol...about your configuration can be seen - query. asp Web Server - File Containing Sensitive Information is **Accessible** - doctodep.htr Web Server - FrontPage "Hidden" Results from Submitted Form Available to the Internet Web...files should always be removed from your production web servers. Many of these files are **accessed** with a virtual directory, so these sample files may not appear in your web manager...this machine are necessary. Manually set the file permissions on this author.dll to no **access** by the IUSR-NAME account. Add user names and password restrictions to control who can **access** and "author'Y"Administer" this web server through FrontPage. Add IP address restrictions to limit...files should always be removed from your production web servers. Many of these files are **accessed** with a virtual directory, so these sample files may not appear in your web manager...

...asp from your server's hard drive.

ISSUE: Web Server - File Containing Sensitive Information is **Accessible** - doctodep.htr CORRECTION: The file permissions of the LvtLpvt directory should be investigated and the permissions tightened so that an Internet user cannot **access** this file ...the Internet CORRECTION: Verify the permissions on the parent directory Vjprivate" deny the "anonymous" user **access** to the folder and re-apply the permissions to the files in the folder.

Alternatively to allow everybody **access** to author pages.

ISSUE: Web Server -- Indexed Directory Disclosure Microsoft IIS 5.0 WebDAV CORRECTION...be affected by the security devices. Internal assessments, however, do not indicate which devices are **accessible** from the Internet and are also limited to the capabilities of the software. The distributed...set of tests until it becomes much more difficult for a defensive mechanism sensitive to **time periods** to detect and protect against it. For example, a network defense can perceive a single...all versions of that service regardless of the vendor. For example, ftp suffers from anonymous **access** 1412, e-mail suffers from unauthorized 1 5 mail relaying 1414, web suffers from various...each IP address of the system under test. This efficiently determines with high likelihood the **accessibility** of IP addresses. For example, if a target IP address was tested previously and determined...depth information on the availability and the types of communication available to machines that are **accessible** from ...an alternative preferred embodiment in which third-party portals 1804, 1806, and 1808, for example, **access** the services of the system. Tester 502 contained within logical partition 1802 have been selected to provide services **accessible** via portals 1804, 1806, and 1808. Tester's 502 outside of logical partition ...all of the following factors: type of attacks attempted, number of attempts during a given **time period** for each attack, type of attack successful, number of successes during a given **time period** for each attack, relative and/or absolute targeting of computers operating within a defined commercial...floppy disk, floptical, hard disk (removable or fixed), Jaz Drive (trademark of Iomega Corporation), JBOD, **disk farm**, magnetic disk, magnetic drum, optical disk, magneto optical disk, one time programmable read-only memory...

Claim

... the system under test after the first test and before the second test;  
wherein the **time period** between the first test and the second test can be negligible.

3 The network security...on the first information.

14 The network security testing method of claim 13, wherein the **time period** between 5 said executing the first test and said executing the second test can be...based on the first information.

26 The computer program product of claim 25, wherein the **time period** between 1 5 executing the first test and executing the second test can be negligible...to execute a second test tool to test the system under test; and

wherein a **time period** of selected length is interposed between the execution 1 0 of the first test tool...wherein the second test tool is targeted at the system under test; and

selecting a **time period** of selected length to follow ...test tool and responsively to said executing the second test tool;

wherein said selecting a **time period** of selected length comprises selecting a **time period** of random length.

SUBSTITUTE SHEET (RULE 26)

. A computer program product for network security testing...second test tool is targeted at the system under test; and instructions for selecting a **time period** of selected length to follow execution of the first test tool and precede the execution...

7/3,K/32 (Item 5 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00961459 \*\*Image available\*\*

**SYSTEM AND METHOD FOR MANIPULATION OF SOFTWARE**

**SYSTEME ET PROCEDE DE MANIPULATION DE LOGICIEL**

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Patent and Priority Information (Country, Number, Date):

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English  
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Fulltext Word Count: 25912

Fulltext Availability:  
Detailed Description

Detailed Description

... and derivative LIF objects) as well as data relating to the various clients that may **access** server 18.

1 0

[61] Furthermore, ...set of records that conform to a commercial database format, such as Oracle® or Microsoft **Access** ®. In one embodiment, the files comprising each discrete software program can be located within a ...

...software program, Database 42 may also employ a configuration management utility (not shown) to facilitate **access** to the stored information, such as client data, information models, ...the available information models to a requesting client, Preferably, clients such as client 26 may **access** a plurality of information models stored in database 42. For example, server 18 'May present...to view only that data in database 42 for which client 26 has been approved **access** . Such authentication

1 2

procedures and **access** control capabilities (i.e. system logins and permissions) are well known in the art and...

...information relating to existing clients. For example, client 26 may be provided with secure **access** to information inodels, source code ... presentation of software architecture through server 18. The client information may help to facilitate secure **access** to sensitive data by providing the necessary authentication and permissions structure. For example, client 26...and composed into an information model. Once the files in source code I have been **accessed** , generator 2 may extract the control flow, functional dependencies, and data dependencies from the individual...analyzing LDF files 54 and generating LIF objects 62. The LDF files 54 can be **accessed** by composer 56 from a storage area or directly from parser 52. Additionally, composer 56...a variety of information models, components, or related files.

[180]

Inoneembodimentcertaininfor-nationmaybemaintainedinasearchabledatabase (not shown) that is **accessible** by search engine 9. The information in the searchable ...present infor-nation models or components of information models for review by interested parties. Additionally, **access** to the viewing of information models may be provided over a public network, thus drastically...such a system may prevent redundant storage and also provide the company's design engineers **access** to the company's IP. This may result in the reuse of IP that would...open systems. association may maintain an external, public IP repository. Such a repository may allow **access** to the IP for anyone with a public network connection and the desire to view...

...Alternatively, dynamic content may be generated that allows design engineers to develop and process certain **usage** cases for the targeted application or underlying source code 1. For example, a training aid... Explorea and Netscape CommunicatorD are two examples of commercial WWW browsers.

[201]

Furtherinore,theconnectioncanbeacceptedbytheserverwithorwithoutverifying the **access** permissions of the user. For example, in one embodiment, any user with **access** to a W-WW browser and the network that supports the server computer may be...

...to the server may be required to provide a valid username and password combination before **access** to the server is granted.

[...an information model may require an additional valid username and password combination. In one embodiment, **access** to the server may be freely granted. while **access** to the information models may require authorization. Advantageously, this may allow an entity to advertise the service and provide basic **access** while reserving the value added **access** to information models for authorized clients.

45

[203] Once a particular information model has been...

...the information model can include creating a lock file for the information model such that **access** to the particular information is denied to other users. In one embodiment, a lock file may prevent duplicative write **access** to the information model while allowing other users to have read **access** to the information model.

[204] Alternatively, loading the information model can include '**accessing** a database of information models and submitting a query for the requested information model. Upon...

...be read into memory. Additionally, loading the information model may require that the server system **access** a remote system in order to read the information model. For example, the information model may be archived in permanent storage across the network in an optical **disk farm** for long term storage. In such a case, several queries and disk **accesses** may be required to ultimately load the information model.

[205] Once the information model has...processor 352. The main memory 356 is typically semiconductor-based memory such as dynamic random **access** memory (DRAM) and/or static random **access** memory (SRAM). other semiconductor-based memory types include, for example, synchronous dynamic random **access** memory (SDRAM), Rambus dynamic random **access** memory (RDRAM), ferroelectric random **access** memory (FRAM), and the like, as well as read only ...IMPLEMENTATION CONSIDERATION.

62

Distinction between function and data in item 2 is done at run **time based** on information available in the apilist.xml file.

<!ELEMENT GROUP (#PCDATA) >

[253] In this exemplary...

7/3,K/33 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00957087 \*\*Image available\*\*

METHOD AND SYSTEM OF ROUTING MESSAGES IN A DISTRIBUTED SEARCH NETWORK  
PROCEDE ET SYSTEME DE ROUTAGE DE MESSAGES DANS UN RESEAU DE RECHERCHE  
DISTRIBUEE

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Patent and Priority Information (Country, Number, Date):

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

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Fulltext Word Count: 26949

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... lead to distortion of such data. In some situations, content may be  
inaccessible due to **access** privileges (e.g. a subscription site), or  
for security reasons (e.g. a secure content...

...than desirable in regard to some types of information providers, for  
example in regards to **accessing** dynamic content from a news site. A  
current news provider may provide content created by...may be applied in  
a wide variety of domains, including, but not limited to: public  
**accessible** web search, private networks of trading partners, and  
interaction between distributed services and applications. In...a  
standard manner, Rich Site Summary (RSS) (previously known as RDF Site  
Summary), Simple Object **Access** 4 Protocol (SOAP) and Microsoft's NET,  
These technologies may provide a more "...search" than existing  
crawler-based search engines. The distributed information discovery  
platform may leverage remote **access** or public search capabilities  
provided by information providers. Furthermore, under the distributed  
information discovery platform, a provider that wishes to restrict remote  
**access** may still allow searching and control how content is searched by  
registering with a distributed...handle query and response routing in the  
network.

A hub 100 may act as an **access** point that may provide virtual **access**  
to a portion of or the entire distributed information discovery network.  
Providers 120 and consumers...registration information for a plurality  
of providers 120. In one embodiment the hub 100 has **access** to the  
registration repository.



One embodiment of the peer-to-peer platform may provide a policy... credentials that define a member's rights, privileges, and role within the group and content **access** and sharing credentials that define a member's rights to the content stored within the...XML may be used to provide support for peers that do not support XML to **access** advertised resources.

In one embodiment, advertisements may be composed of a series of hierarchically arranged...the resource within the platform. One or more <Peer Endpoint:> elements may be used to **access** a resource. Peer endpoint elements may contain a network transport name (for example, a string...using the peer information protocol. In one embodiment, service advertisements may include one or more **access** policies that describe how to activate and/or use the service. The core peer services...

...respond to protocol messages) may advertise their existence in this manner. In one embodiment, the **access** method for the core services may be a schema of valid XML messages accepted by...

#### Claim

... search responses includes relevance information.

8 The method as recited in claim 1, further comprising **accessing** a plurality of provider registrations to determine address information for at least some of the...includes relevance information.

50

. The method as recited in claim 23, farther comprising means for **accessing** a plurality of provider registrations to determine address information for at

7/3,K/34 (Item 7 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00957086 \*\*Image available\*\*

#### DISTRIBUTED INFORMATION DISCOVERY

#### DECOUVERTE D'INFORMATIONS REPARTIES

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Patent and Priority Information (Country, Number, Date):

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EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

Sylvia Keys

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LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

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Detailed Description

Claims

Detailed Description

... lead to distortion of such data. In some situations, content may be inaccessible due to **access** privileges (e.g. a subscription site), or for security reasons (e.g. a secure content...  
...some types of providers.

For example, consider the role of a crawler-type search mechanism **accessing** dynamic content from a news site. A current news provider may provide content created by...distributed information discovery platform may be applied to a wide variety of domains: from public **accessible** web search to 15 private networks of trading partners to interaction between distributed services...

...may be applied in a wide variety of domains, including, but not limited to: public **accessible** web search, private networks of trading partners, and interaction between distributed services and applications. The...all the peers it knows about, which becomes expensive and inefficient in terms of bandwidth **usage** and search speed. The other ...restricted crawling may still be an inefficient method for many deep searches, due to the "**access**" issue.

Unlike static web pages, deep web resources do not typically have a "page of...engines query their databases remotely. Finally, in some situations, content may be inaccessible due to **access** privileges (e.g. a subscription site), or for security reasons (e.g. a secure content site). The distributed information discovery platform may leverage remote **access** or public search capabilities provided by information providers. Furthermore, under the distributed information discovery platform, a provider that wishes to restrict remote **access** may still allow searching and control how its content is searched by registering with a ...handle query and response routing in the network. A hub 100 may act as an **access** point that may provide virtual **access** to the entire distributed information discovery network. Hubs 100 may facilitate efficient query routing over...a specific hub100 implemented on one or more machines. A hub 100 may provide virtual **access** to the entire distributed information discovery network. In some embodiments, providers 120 and consumers 140...2, according to one embodiment. In one embodiment, a consumer 140 may provide users an **access** point to a distributed information discovery network. A consumer such as consumer 140A may include...a provider 120 does not run its own provider QRP interface 122B but does allow **access** to its own search engine.

Hub 100 performs the routing of queries from consumers 140...each of the router, resolver, proxies, and QRP interfaces may be implemented on a web- **accessible** server or servers. Also, a distributed information discovery network may include multiple different routers, resolvers...

7/3,K/35 (Item 8 from file: 349)  
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00957085 \*\*Image available\*\*

**SYSTEM AND METHOD FOR DISTRIBUTED REAL-TIME SEARCH**  
**SYSTEME ET PROCEDE DE RECHERCHE DISTRIBUEE EN TEMPS REEL**

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

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Detailed Description

Detailed Description

... lead to distortion of such data. In some situations, content may be  
inaccessible due to **access** privileges (e.g. a subscription site), or  
for security reasons (e.g. a secure content...  
...desirable in regard to some types of information providers, for example  
in regards to **accessing** dynamic content from a news site. A current  
news provider may provide content created by ...may be applied in a wide  
variety of domains, including, but not limited to: public **accessible**  
web search, private networks of trading partners, and interaction between  
distributed services and applications. In...a standard manner, Rich Site  
Summary (RSS) (previously known as RDF Site Summary), Simple Object  
**Access** Protocol (SOAP) and Microsoft's NET. These technologies may  
provide a more familiar environment to...search" than existing  
crawler-based search engines. The distributed information discovery  
platform may leverage remote **access** or public search capabilities  
provided by information providers. Furthermore, under the distributed  
information discovery platform, a provider that wishes to restrict remote

**access** may still allow searching and control how content is searched by registering with a distributed...handle query and response routing in the network.

A hub 100 may act as an **access** point that may provide virtual **access** to a portion of or the entire distributed information discovery network. Providers 120 and consumers...registration information for a plurality of providers 120. In one embodiment the hub 100 has **access** to the registration repository.

In one embodiment provider registrations may be meta-data indexes. Registration...2, according to one embodiment. In one embodiment, a consumer 140 may provide users an **access** point to a distributed information discovery network. A consumer such as consumer 140A may include...if a provider 120 does not run its own provider QRP interface 122B but does allow **access** to its own search engine.

Hub 100 performs the routing of queries from consumers 140...each of the router, resolver, proxies, and QRP interfaces may be implemented on a web- **accessible** server or servers. Also, a distributed information discovery network may include multiple different routers, resolvers...may determine whether a query is recognizably formatted, contains an illegal query or result, would **access** restricted information, or otherwise cannot validly be processed, and ...respond to a particular query by sending the query into the network via a specific **access** point (...RPC)) requests. XML-RPC is a protocol (which forms the basis of Simple Object **Access** Protocol (SOAP)) for invoking server side methods over XML. In other embodiments, QRP interfaces also...an information provider's presence on the which may use the hub 100 as an **access** point to the distributed information discovery network. As shown in node 180, a node on ...turn it off) if necessary. In some embodiments, a QRP interface may be able to **access** a registration file, for example to read at least part of the registration document or...to a provider. The tool site analysis tool may query, crawl, spider, index, or otherwise **access** or interact with the site to determine the type of information available from the site...protocol interface of the provider. In one embodiment, a provider QRP interface or adapter may **access** a backend search engine of the provider to perform the search.

The provider may compose...one embodiment a router system may include a RouterServlet to receive routing requests and give **access** to real-time statistics. In one embodiment, a router system may include a HttpRouteConnection to...provider.

In one embodiment, the router system may track certain statistics so that administrators may **access** the router system to view current statistics about their node, such ...routes. In one embodiment, a log file or parts of a log file may be **accessible** to applications or elements of the information discovery network.

In the above example, a failed for three **time - periods** : monthly, weekly, and daily, and may be shown to the administrator through an easy point...advertisement to service 204. Clients 202A and 202C may request and, if authorized, be granted **access** to service 204. Client 202B may also **access** service 204.

In one embodiment, peer-to-peer protocols may be embodied as markup language...may also provide a mechanism for monitoring peers and peer groups 304, and for metering **usage** between peers and peer groups 304. The peer-to-peer platform may also provide a...simple platform that preferably does not rely on high-speed interconnects, complex operating

systems, large **disk farms** , or any other technology on which traditional tightly-coupled systems rely.

Network nodes (called peers...peer in a group may store content. The sharing policy may encapsulate such behaviors as **access** , replication, and searching.

One embodiment of the peer-to-peer platform may provide a policy... credentials that define a member's rights, privileges, and role within the group and content **access** and sharing credentials that define a member's rights to the content stored within the...services 2 1 0 may include peer group sharing software that may be used to **access** a local store 214 (e.g. sharable content). High-level services 220 may include such...XML may be used to provide support for peers that do not support XML to **access** advertised resources.

1 5 In one embodiment, advertisements may be composed of a series of... the resource within the platform. One or more <Peer Endpoint> elements may be used to **access** a resource. Peer endpoint elements ...using the peer information protocol. In one embodiment, service advertisements may include one or more **access** policies that describe how to activate and/or use the service. The core peer services...

...respond to protocol messages) may advertise their existence in this manner. In one embodiment, the **access** method for the core services may be a schema of valid XML messages accepted by...

7/3,K/36 (Item 9 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00957082 \*\*Image available\*\*

**SYSTEM AND METHOD FOR RESOLVING DISTRIBUTED NETWORK SEARCH QUERIES TO INFORMATION PROVIDERS**

**SYSTEME ET PROCEDE DESTINE A RESOUDRE DES DEMANDES DE RECHERCHE DE RESEAU DISTRIBUE PAR L'INTERMEDIAIRE DE FOURNISSEURS D'INFORMATIONS**

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BOTROS Sherif, 3048 Whisperwave Circle, Redwood Shores, CA 94065, US,  
BEATTY John, Apartment 403, 3 Bayside Village Place, San Francisco, CA  
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Legal Representative:

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR

LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
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SYSTEM AND METHOD FOR DETERMINING RELEVANCY OF QUERY RESPONSES IN A  
DISTRIBUTED NETWORK SEARCH MECHANISM

SYSTEME ET PROCEDE POUR DETERMINER LA PERTINENCE DE REPONSES APPORTEES A  
DES REQUETES DANS UN MECANISME DE RECHERCHE D'UN RESEAU DISTRIBUE

Patent Applicant/Assignee:

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Inventor(s):

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DOOLIN David M, 6016 B. Avila Avenue, El Cerrito, CA 94530, US,  
WATERHOUSE Steve, 1660 Bay Street, #203, San Francisco, CA 94123, US,

Legal Representative:

CONLEY ROSE & TAYON P C (agent), Kowert, Robert, C., P.O. Box 398,  
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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

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Fulltext Availability:

Detailed Description

Detailed Description

... lead to distortion of such data. In some situations, content may be  
inaccessible due to **access** privileges (e.g. a subscription site), or  
for security reasons (e.g. a secure content...

...than desirable in regard to some types of information providers, for  
example in regards to **accessing** dynamic content from a news site. A  
current news provider may provide ...may be applied in a wide variety of  
domains, including, but not limited to: public **accessible** web search,  
private networks of trading partners, and interaction between distributed  
services and applications. In...a standard manner, Rich Site Summary  
(RSS) (previously known as RDF Site Sbrnnary), Simple Object **Access**  
Protocol (SOAP) and Microsoft's ...search" than existing crawler-based  
search engines. The distributed information discovery platform may  
leverage remote **access** or public ...providers. Furthermore, under the  
distributed information discovery platform, a provider that wishes to

restrict remote **access** may still allow searching and control how content is searched by registering with a distributed...handle query and response routing in the network.

A hub 100 may act as an **access** point that may provide virtual **access** to a portion of or the entire distributed information discovery network. Providers 120 and consumers...registration information for a plurality of providers 120. In one embodiment the hub 100 has **access** to the registration repository.

In one embodiment provider registrations may ...2, according to one embodiment. In one embodiment, a consumer 140 may provide users an **access** point to a distributed information discovery network. A consumer ...a provider 120 does not run its own provider QRP interface 122B but does allow **access** to its own search engine.

Hub 100 performs the routing of queries from consumers 140...each of the router, resolver, proxies, and QRP interfaces may be implemented on a web- **accessible** server or servers. Also, a distributed information discovery network may include multiple different routers, resolvers...may determine whether a query is recognizably formatted, contains an illegal query or result, would **access** restricted information, or otherwise cannot validly be processed, 1 5 and may return an error...respond to a particular query by sending the query into the network via a specific **access** point (hub 100). In one embodiment, consumer 140 may send the query to router 104...Call (RPQ requests. NA4L-RPC is a protocol (which forms the basis of Simple Object **Access** Protocol (SOAP)) for invoking server side methods over XN4-L. In other embodiments, QRP interfaces...an information provider's presence on the which may use the hub 100 as an **access** point to the distributed information discovery network. As shown in node 180, a node on...tam it off) if necessary. In some embodiments, a QRP interface may be able to **access** a registration file, for example to read at least part of the registration document or...to a provider. The tool site analysis tool may query, crawl, spider, index, or otherwise **access** or interact with the site to determine the type of information available from the site...protocol interface of the provider. In one embodiment, a provider QRP interface or adapter may **access** a backend search engine of the provider to perform the search.

The provider may compose...one embodiment a router system may include a RouterServlet to receive routing requests and give **access** to real-time statistics. In one embodiment, a router system may include a HttpRouteConnection to...provider.

In one embodiment, the router system may track certain statistics so that administrators may **access** the router system to view current statistics about their node, such as how many queries...routes. In one embodiment, a log file or parts of a log file may be **accessible** to applications or elements of the information discovery network.

In the above example, a failed...

...up." In one embodiment, for example, parsing logs may generate logs and graphs for three **time - periods** : monthly, weekly, and daily, and may be shown to the administrator through an easy point...advertisement to service 204. Clients 202A and 202C may request and, if authorized, be granted **access** to service 204. Client 202B may also **access** service 204.

In one embodiment, peer-to-peer protocols may be embodied as markup language...may also provide a mechanism for monitoring peers and peer



groups 304, and for metering **usage** between peers and peer groups 304. The peer-to-peer platform may also provide a...simple platform that preferably does not rely on high-speed interconnects, complex operating systems, large **disk farms**, or any other technology on which traditional tightly-coupled systems rely.

Date

Network nodes (called peers...peer in a group may store content. The sharing policy may encapsulate such behaviors as **access**, replication, and searching.

One embodiment of the peer-to-peer platform may provide a policy...credentials that define a member's rights, privileges, and role within the group and content **access** and sharing credentials that define a member's rights to the content stored within the...services 210 may include peer group sharing software that may be used to **access** a local store 214 (e.g. sharable content). High-level services 220 may include such...XML may be used to provide support for peers that do not support XML to **access** advertised resources.

5 In one embodiment, advertisements may be composed of a series of hierarchically...the resource within the platform. One or more <Peer Endpoint> elements may be used to **access** a resource. Peer endpoint elements may contain a network transport name (for example, a string...using the peer information protocol. In one embodiment, service advertisements may include one or more **access** policies that describe how to activate and/or use the service. The core peer services...

...respond to protocol messages) may advertise their existence in this manner. In one embodiment, the **access** method for the core services may be a schema of valid XML messages accepted by...

7/3,K/38 (Item 11 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00876825 \*\*Image available\*\*

**DISTRIBUTED SEARCH SYSTEM AND METHOD**

**SYSTEME DE RECHERCHE REPARTIE ET PROCEDE**

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US21650 20010710 (PCT/WO US2001021650)

Priority Application: US 2000221546 20000728

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10220

Fulltext Availability:

Detailed Description

Detailed Description

... methods relate generally to search systems and methods, and more particularly to efficiently locating and **accessing** information across a communications network such as the internet.

(2) Description of Related Art

The...

...and hence internet businesses, is knowing the suppliers to contact,, and how to gain proper **access** to the suppliers. The success of commerce on the internet therefore depends on customers' ability...

...product catalogs) at online shopping malls or business-to-business "vortals" to allow consumers to **access** consolidated listings across multiple suppliers. It is anticipated that the next generation supplier networks may dynamically **access** information from relevant suppliers in response to a buyer's requirements and present only the...

...installed on a subscriber's server to allow a website and/or other data sources **accessible** to the server, to be searched without requiring pre-integration, reformatting, etc. of the server...

...intranet, that can include a home page and other documents and files that can be **accessed** through the webpage either directly 1 5 or indirectly, and the website can also include databases that can be **accessed** directly or indirectly. The application can develop a customized query for the website and/or other data sources **accessible** to the server, using wired or wireless communications systems and protocols.

When a subscriber maintains a product catalog database, for example, the installed 2 0 application can **access** the database and build a customized dictionary that can convert a natural language or keyword...

...In some embodiments, the methods and systems can allow an internet user or other internet **accessible** entity, including non-human entities, to initiate a search from, for example, a website. Such...

...can receive a HTTP command and thereafter reach behind security measures such as firewalls to **access** otherwise protected or secure data. The systems and methods can also allow subscribers to receive...system to initiate the purchase process.

The methods and systems can allow a subscriber to **access** and search a cooperating 2 5 subscriber's website and products in a peer-to...

...be identified at the initiating device or website by an account number that can allow **access** to a locally or centrally stored profile for submission with the inquiry. In yet another...

...systems can identify customized dictionaries using a LTRL that can allow a remote server to **access** the dictionary, create a local copy, modify the copy, and transmit the modified copy to...

...database can use a format compatible with MySQL, SQL, Oracle, Informix, Sybase, the Freedom Engine, **Access**, ODBC, DB2, etc. Those with ordinary skill in the art will recognize that the methods...not limited to the browser or other network interface. Furthermore, the initiating device 12 can **access** the internet using wired or wireless communications links and/or protocols.

3 0 The initiating...

...The server 14 can also include one or more mass storage devices such as a **disk farm** or a redundant array of independent disk ("RAID") system for additional storage and data integrity...similar systems.

In an embodiment of the FIG. 1 system, the initiating device 12 can **access** the server 14 via the internet, and the server 14 can provide a webpage or...

...be included, in one embodiment, in a database 13.

The subscriber database 13 can be **accessed** locally or through a network such as the internet using wired or wireless communications devices...

...of well 25 known database packages including MySQL, SQL, Oracle, Informix, Sybase, the Freedom Engine, **Access**, ODBC, DB2, etc., with such examples provided for illustration and not limitation. In an embodiment...

...reside in a memory of the server 14.

In an embodiment, the server 14 can **access** subscriber information from the database 13 to cause the query information to be distributed to...the dictionary output can be a customized HTTP search string that can utilize a general **access** method that can be created for the data source (e.g., the HTTP search string can be formatted based on drop-down menus, radio button selections, and/or other general **access** provisions). In an example of a database embodiment, a database can be configured with columns...

...also recognize and respond appropriately to query information that seeks a "yes" or "no" answer, **time - based** queries using date or time terminology including "now", "last month", "before", "between", etc., and arithmetic...being applied to a data source for which the user is not allowed to otherwise **access**. In such an embodiment, the methods and systems herein can be incorporated behind a firewall...

...can be performed across a network such as the internet or an intranet, wherein **accessibility** to the data sources may not be protected by a firewall. As indicated previously, search...

...an output log that can be understood to be a computer file that can be **accessed** by a system administrator or other authorized individual or entity according to the server 16...

...the log files to provide log results based on results generated, date, time of day, **time period**, etc.

In the illustrated embodiments, a system administrator or other authorized user can edit...the query information into a SQL statement, advanced text search expression, HTTP call, etc, by **accessing** a

dictionary 18 that corresponds to a data source 20 to be searched. For the...

...and output format can be input to a query processor 44 that includes a data **access** module - 16 46 that transfers the query information and dictionary selection to a query translator...

...multiple dictionaries and/or query translators. The customized query can be transferred to the data **access** module 46 that can issue the customized query to the data source 20 corresponding to...

...and specified. The 1 0 customized query search results can be returned to the data **access** module 46 and thereafter transferred to the formatting module 48 with the specified output format...

...a server 16 can provide query information, dictionary selection, and output format to the data **access** module 46 of the query processor 44. The data **access** module 46 can provide the query information and dictionary selection to the query translator module...

...generate a customized search or query. The customized search can be provided to the data **access** module 46 and - 17 As indicated with reference to FIG. 4, the system and methods...on a server, or 3 0 remotely from another platform. Similarly, a dictionary can be **accessed** and/or managed locally or remotely using wired or wireless communications systems and methods. Results...

7/3,K/39 (Item 12 from file: 349)  
 DIALOG(R)File 349:PCT FULLTEXT  
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00874936 \*\*Image available\*\*

# **METHODS AND SYSTEMS FOR NETWORKED CAMERA CONTROL**

## **PROCEDES ET SYSTEMES POUR UNE COMMANDE DE CAMERA RELIEE A UN RESEAU**

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US41413 20010725 (PCT/WO US0141413)

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
 EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
 LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL  
 TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM  
Publication Language: English  
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Fulltext Word Count: 8659

Fulltext Availability:  
Detailed Description  
Claims

#### Detailed Description

... 18, 20, 22 can also include one or more mass storage devices such as a **disk farm** or a redundant array of independent disks ("RAID") system for additional storage and data integrity...

...data from the cameras 16a- 1 6f can be communicated using an intra-lata (local **access** transport area) service that can otherwise be known as local toll, regional, or zone service...not limited to the browser or other network interface. Furthermore, the initiating device 62 can **access** the internet using wired or wireless communications links and/or protocols.

Referring again to FIG...control commands that can be transmitted to the camera at fixed intervals for a given **time period**. For example, as previously provided, camera commands can be transmitted to the camera 16 while...

...given time interval during which control commands can be generated can be, for example, the **time period** during which the cursor 76 is active. As indicated herein, for the illustrated interface 70...

...provided user names, accounts, passwords, and login information such that when the registered users 48 **access** the web server 64, the users can be recognized as a subscriber or registrant. The...

...and systems can allow camera control options for subscriber users (e.g., pay-per-view **access**), non-subscriber users, and system administrators. In one embodiment of the illustrated systems and methods...

#### Claim

... camera by at least one network user, comprising:  
at least one initiating device for providing **access** to the at least one network user over a network, the initiating device having a...

7/3,K/40 (Item 13 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00856069 \*\*Image available\*\*

**METHODS AND APPARATUS FOR ADMINISTERING A SERVER, INITIALIZING A SERVER, AND MANAGING SERVER LOAD**  
**PROCEDES ET DISPOSITIF D'ADMINISTRATION ET D'INITIALISATION DE SERVEUR, ET DE GESTION DE CHARGE DE SERVEUR**

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Application: WO 2001US14314 20010503 (PCT/WO US0114314)  
Priority Application: US 2000566898 20000508; US 2000566028 20000508; US 2000567448 20000508

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

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Fulltext Word Count: 39356

Fulltext Availability:

Detailed Description  
Claims

Detailed Description

... application program is executing at the client, an administrator will often provide a user with **access** to a number of application servers that host the desired applications and are capable of...

...in order for such a system to operate efficiently, the application servers must dynamically coordinate **access** to system resources shared among the application servers as well as coordinate **access** to the application servers by the user. One way in which this is done is...

...act as the "master server." The master server is responsible for keeping track of resource **usage** both by users and application servers. However, as the number of applications servers grows larger...

...information in the dynamic store.

In another embodiment, the method also includes the steps of **accessing** the dynamic store to retrieve run-time information and transmitting, by the load management subsystem...

...retrieved from the dynamic store. In another embodiment, the method also includes the step of **accessing** the dynamic store to retrieve processor load information. In another embodiment, the method also includes the step of **accessing** the dynamic store to retrieve server schedule information. In another embodiment, the method also includes the step of **accessing** the dynamic store to retrieve input/output transaction information. In another embodiment, the method also includes

subsystem **accessing** a registry file to identify at least one system service module.

23 The method of claim 6 wherein step (d) comprises initializing a first subsystem, the first subsystem **accessing** a daemon to identify at least one system, service module. i 24. The method of claim 6 wherein step (d) comprises initializing a first subsystem, the first subsystem **accessing** a WINDOWS NT service to identify at least one system service module.

25 The method in communication with an initialization resource, said first subsystem **accessing** said initialization resource to (inverted exclamation mark) identify at least: one other subsystem to initialize...

7/3,K/41 (Item 14 from file: 349)  
DIALOG(R) File 349:PCT FULLTEXT  
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00853799 \*\*Image available\*\*

**A METHOD AND APPARATUS FOR COMMUNICATING AMONG A NETWORK OF SERVERS  
PROCEDE ET APPAREIL PERMETTANT D'ETABLIR UNE COMMUNICATION DANS UN RESEAU  
DE SERVEURS**

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Patent and Priority Information (Country, Number, Date):

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Application: WO 2001US40661 20010503 (PCT/WO US0140661)  
Priority Application: US 2000567450 20000508; US 2000566590 20000508; US  
2000567456 20000508

Designated States:

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prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 39594

Fulltext Availability:

Detailed Description

Detailed Description

... application program is executing at the client, an administrator will  
often provide a user with **access** to a number of application servers  
that host the desired applications and are capable of...

...in order for such a system to operate efficiently, the application servers must: dynarnically coordinate **access** to system resources shared among the application servers as well as coordinate **access** to the application servers by the user. One way in which this is done is...

...act as the "rmaster server." The master server is responsible for keeping track of resource **usage** both by users and. application servers. However, as the number of applications servers grows larger...3

Application Name Resolution

7 4 Application Enumeration

7 5 Server Enumeration

7.10 Cormmon **Access** Point (CAP) Subsystem

7.11 Administration Subsystem

8.0 Administration Tool

Detailed Description of the...RDP), manufactured by Microsoft Corporation of Redmond Washington, can be used to allow client 120 **access** to a server fiarm 1 1 0, such as **access** to applications residing on the servers 180.

2.0 Server Farm Overview

Referring now to...

...one embodiment, the persistent store 230 may maintain the server data in a Lightweight Directory **Access** Protocol (LDAP) data model. In other embodiments, the persistent store 230 stores server data in...Writing to the persistent store 230 can take relatively long periods of time. To minimize **accesses** to the persistent store 230, the servers 180 may develop a logical, common database (Le., the dynamic store 240) that is **accessible** by all of the servers 180 in the farm 1 1 0 for **accessing** and. storing some types of data. The dynamic, store 240 may be physically implernented in...

...1 1 0, as described in greater detail below. The local memory can be random **access** mernory, - 12' **disk**, **disk farm**, a redundant array of independent disks (RAID), or any other memory device that allows data...

...node with which all other servers 180 in the fann 1 1 0 communicate when seeking **access** to that runtime data. In another embodiment, each server 1 8 0 in the server...

...point server 1 8 0, rather than with every other server 180. when seeking to **access** the runtime data.

2.4 Server Zones

FIG. 213 shows an exemplary server farm 1...0), and a common server subsystem (described below in section 7. 1 0), a conunon **access** point subsystem (described below in section 7.1 1), and an administration subsystem (described below...

...implementation of the event buffer 380 is in local memory 325 of the server 180, **accessible** by each of the subsystems 300 and the system service modules 350 of the server...

...the event, is transmitted to a remote server. This embodiment allows multiple subsystems 300 to **access** the same event information substantially simultaneously.

3.2 Subsystem Com-inunication Usiniz the Event bus...between subsystems 300 on the same server 180 so that the receiving subsystem(s) can **access** the location in local memory 325 (Le., the event buffer 380) where the



event is...

...shared library.

Each subsystem 300 provides a dynamically linked library (DLL) that implements a subsystem **access** layer (SAL) 304, 304', 304", 304... (generally 304). Each SAL 304 defines application program interface... store system service module 352 serves as the mechanism that allows other subsystems 300 to **access** information from the persistent store 230.

The persistent store system service module 352 translates subsystem...

...Oracle Corporation, of Redwood. City, California. In other embodiments, the database can be a Microsoft **ACCESS** database or a Microsoft SQL ... store system service module 352 can, for example, correspond to the lightweight directory **access** protocol (LDAP) data model or other protocol or database formats. The ability to convert external...

...model (and vice versa) enables the persistent store system service module 352 to provide uniform **access** to data stored on the persistent store 230.

The information typically stored on the persistent...

...user-1  
6 user-1

To avoid having to traverse the entire tree upon each **access** to an object in the persistent store 230, a requesting subsystem 300 can...

...authenticate whether a remote user of the server farm 110 is authorized to **access** an application program on a particular server 180 that is part of that server farm 110. The administration tool 140 directs an administration subsystem (not shown) to send an event...subsystems (requesting entities). The subsystem 300, which is the source of the data, sets the **access** restrictions via the SAL API of the persistent store system service module 352 that limit...

...System. Service Module

The dynamic store 240 operates as a global database that stores records **accessible** by each server 180 in a zone 260, 270. In one embodiment, each stored record...

...subsystems 300 of the same subsystem type that register with the dynamic store 240 can **access** the records created according to that registered schema. As part of registering the schema, a...

...the dynamic store 240, that subsystem 300 also supplies one or more parameters that specifies **usage** information about records. One such parameter controls "update latency," that is, the frequency at which...of the source subsystem 300.

The service locator 354 identifies a destination host by **accessing** information maintained in the dynamic store 240 through the dynamic store system service module 356...subsystem rank, a zone identifier, and a host identifier.

The service locator 354 receives a request for a local address (or a request to deliver an event to a host) and **accesses** the table stored in the dynamic store 240. In some embodiments, the service locator 354...as zone or farm-wide. Placing such subscriptions in the dynamic store 240 makes the subscriptions **accessible** farm-wide by subscription managers 362 of every other server 180 in the server farm...host section 480", respectively, of the remote subscription table 480. In one embodiment,

common application subsystem 300 has **access** to information about all of the applications published by the specialized server subsystem 1140. The...

...the ICA browser subsystem 720, to the program neighborhood subsystem 760, or to the common **access** point subsystem 645, depending upon the particular process being run by the client 120. For...120 submits the enumeration request through a web page, the requests pass to the common **access** point subsystem 645. For these embodiments, the common application subsystem 300 serves as an initial **access** point for the program neighborhood subsystem 760, ICA browser subsystem 720, and common **access** point 645 subsystems when the client 120 wants to enumerate applications.

Upon receiving the enumeration...

...list of all applications. For requests received from the program neighborhood subsystem 760 and common **access** point 645 subsystems, this list of applications is filtered according to the credentials of the...

...Requests for server enumeration pass to the ICA browser subsystem 720 or to the common **access** point subsystem 645, depending upon the particular process being run by the client 120. For...

...submits the server enumeration request through a web page, the requests pass to the common **access** point subsystem 645. For these embodiments the common server subsystem 300 serves as an initial **access** point for the ICA browser subsystem 720 and common **access** point 645 subsystems. Upon receiving the server enumeration requests, the common server subsystem 300 queries...

...server communication. Each server 180 in the server farm 110 includes a common **access** point subsystem 645 to enable such non-plug-in software to communicate with the subsystems...

...with the subsystems 300, the non-plug-in software uses the APIs of the subsystem **access** layer (SAL) 304 provided by the common **access** point subsystem 645 to place events on the event bus 310. One example...

7/3,K/42 (Item 15 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00853790 \*\*Image available\*\*

**A SYSTEM AND METHOD FOR DIRECTING RUNTIME DATA IN A SERVER NETWORK**

**SYSTEME ET PROCEDURE D'ENVOI DE DONNEES OPERATIONNELLES DANS UN RESEAU DE SERVEURS**

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Legal Representative:

RODRIGUEZ Michael A (agent), Testa, Hurwitz & Thibault, LLP, High Street Tower, 125 High Street, Boston, MA 02110, US,

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Patent: WO 200186414 A2-A3 20011115 (WO 0186414)

Application: WO 2001US14319 20010503 (PCT/WO US0114319)

Sylvia Keys

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AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS

LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

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Detailed Description

#### Detailed Description

... application program is executing at the client, an administrator will often provide a user with **access** to a number of application servers that host, the desired applications and are capable of...

...in order for such a system to operate efficiently, the application servers must dynamically coordinate **access** to system resources shared among the application servers as well as coordinate **access** to the application servers by the user. One way in which this is done is...

...act as the "master server." The master server is responsible for keeping track of resource **usage** both by users and application servers. However, as the number of applications servers grows larger...Name Resolution

7 4 Application Enumeration  
1 5 7 5 Server Enumeration  
7.10 Common **Access** Point (CAP) Subsystem  
7.11 Administration Subsystem  
8.0 Administration Tool  
Detailed Description of the...

...RDP), manufactured by Microsoft Corporation of Redmond Washington, can be used to allow client 120 **access** to a server farm 1 1 0, such as **access** to applications residing on the servers 180.

2,0 Server Farm. Overview  
Referring now to...1 0.

2.1 Persistent Store  
Persistent store 230 may be physically implemented on a **disk**, **disk farm**, a redundant array of independent disks (RAID), writeable compact disc, or any other device that...

...one embodiment, the persistent store 230 may maintain the server data in a Lightweight Directory **Access** Protocol (LDAP) data model. In other embodiments, the persistent store 230 stores server data in...

...Writing to the persistent store 230 can take relatively long periods of time. To minimize **accesses** to the persistent store 230, the servers 180 may develop a logical, common database (Le., the dynamic store 240) that is **accessible** by all of the servers 180 in the farm 1 1 0 for **accessing** and storing some types of data. The dynamic store 240 may be physically implemented in...

...1 1 0, as described in greater detail below. The local memory can be random **access** memory, disk, disk farm, a redundant array of independent disks (RAID), or any other memory...

...with which all other servers 180 in the farm 1 1 0 communicate when seeking **access** to that runtime data. In another embodiment, each server 180 in the server farm 1...point server 1 8 0, rather than with every other server 180, when seeking to **access** the runtime data.

#### 2.4 Server Zones

FIG. 213 shows an exemplary server farm 1...0), and a common server subsystem (described below in section 7.1 0), a common **access** point subsystem (described below in section 7.1 1), and an administration subsystem (described below...

...implementation of the event buffer 380 is in local memory 325 of the server 180, **accessible** by each of the subsystems 300 and the system service modules 350 of the server...the event, is transmitted to a remote server. This embodiment allows multiple subsystems 300 to **access** the same event information substantially simultaneously.

- 17

### 3.2 Subsystem Communication Using the Event bus...

...between subsystems 300 on the same server 180 so that the receiving subsystem(s) can **access** the location in local memory 325 (Le., the event buffer 380) where the event is...

...shared library.

Each subsystem 300 provides a dynamically linked library (DLL) that implements a subsystem **access** layer (SAL) 304, 304', 304", 304... (generally 304). Each SAL 304 defines application program interface... system service module 352 serves as the mechanism that allows other subsystems 300 to **access** information from the persistent store 230.

The persistent store system service module 352 translates subsystem...

...Oracle Corporation, of Redwood City, California. In other embodiments, the database can be a Microsoft **ACCESS** database or a Microsoft SQL server database.

The persistent store system service module 352 services...

...the persistent store system service module 352 can, for example, correspond to the lightweight directory **access** protocol (LDAP) data model or other protocol or database formats. The ability to convert external...

...model (and, vice versa) enables the persistent store system service module 352 to provide uniform **access** to data stored on the persistent store 230.

15 The information typically stored. on...

7/3,K/43 (Item 16 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00847472 \*\*Image available\*\*

**SYSTEM AND METHOD FOR PRIORITIZATION INFORMATION**  
**PARAMETRES DE HIERARCHISATION DE PASSERELLE DE CONDUCTEUR**

Patent Applicant/Assignee:

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Inventor(s):

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2L5, CA,

KOUTS Michael, 42 Rameau Drive, Toronto, Ontario L7P 4Y7, CA,

Legal Representative:

BURTON Carol W (et al) (agent), Hogan & Hartson LLP, Suite 1500, 1200  
17th Street, Denver, CO 80202, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200180517 A2-A3 20011025 (WO 0180517)

Application: WO 2001US12385 20010416 (PCT/WO US0112385)

Priority Application: US 2000197490 20000417

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 16482

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... its vast reach as a result of its wide 2o and increasing availability  
and easy **access** protocols. Unfortunately, the heterogeneous nature of  
the Internet results in variable bandwidth and quality of...  
...and WAN environments.

A particular need exists in environments that involve multiple users  
3 o **accessing** a network resource such as a web server. Examples include  
broadcast, multicast and videoconferencing as...01 as shown in FIG. 1,  
provide a physical  
connectionbetweenthevariousdevicesthroughnetwork101. Routers109  
lo may implement desired **access** and security protocols to manage  
**access**  
through network 101.

Network appliances 107 may also couple to network 1 01 through public...

...it is often desirable to provide one or more locations of shared storage

Sylvia Keys

11-May-05 11:02 AM

such as **disk farm** (not shown) that provides mass storage capacity beyond what an individual device can efficiently use...

...extended to client software other than conventional web browser software. Any client application that can **access** a standard or proprietary user level protocol for network **access** is a suitable equivalent. Examples include client applications that act as front-ends for file...

...that forms, in essence, a private network.

5 Front-end mechanism 201 serves as an **access** point for client-side communications. Front-end 201 implements a gateway that functions as an ...general purpose Internet, front-end 201 and back-end 203 are programmably assigned to serve **accesses** to a particular web site 210 at any given time.

(inverted exclamation mark)t...

...a priority.

Higher priority clients, or clients requesting higher priority data, can be given preferential **access** to network resources so they receive **access** to the channel sooner while ensuring low-priority clients receive sufficient service to meet their...

...load balancing. Hence, when quality of service drops because of a large number of client **accesses**, an additional front-end 201 can be assigned to the web site ...such as email and network news, as well as special-purpose applications such as database **access**, telephony, and the like. Alternatively, a special-purpose user interface may be substituted for the...

...TCP protocol that manages transmission of packets between client 205 and an ISP or equivalent **access** point. IP protocol requires that each data packet include, among other things, an IP address...

...servers 307 to users of the domain system.

The user programs (e.g., clients 205) **access** name servers through 10 standard programs such as resolver 305. Resolver 305 includes an...25 owned and controlled by system components of the present invention. When a user **accesses** a network resource (e.g., a web site), browser 301 contacts the public DNS system...Cache 403 may be implemented as a passive cache that stores frequently and/or recently **accessed** web pages or as an active cache that stores network resources that are anticipated to be **accessed**. In non-web applications, cache 403 may be used to store any form of data...protocols and share the pipe efficiently in order to allow the other transport mechanisms fair **access** to the shared communication bandwidth. Since TMP takes only the amount of bandwidth that is...web page to the user as quick as possible.

A second user may want to **access** text information as quickly as possible, and establish a priority scheme that increases the priority...number of transmission cycles that a set of information remains in the

network influences a **time - based** priority value associated with the set of information. For example, a packet initially having a...The expiration may be measured in terms of time (e.g., every 7 days), is **usage** (e.g., every 1 000 times the domain cookie is received by a front-end...

#### Claim

... s comprising:

associating a priority value with each of a plurality of resources that are

**accessible** through the network server; and

for each user requesting the resources, tracking the priority values...

7/3,K/44 (Item 17 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2005 WIPO/Univentio. All rts. reserv.

00847393 \*\*Image available\*\*

#### GATEWAY BUFFER PRIORITIZATION

#### CLASSEMENT PAR PRIORITES DES TAMPONS DE PASSERELLES POUR CONDUCTEURS

Patent Applicant/Assignee:

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Patent and Priority Information (Country, Number, Date):

Patent: WO 200180024 A2-A3 20011025 (WO 0180024)

Application: WO 2001US12384 20010416 (PCT/WO US0112384)

Priority Application: US 2000197490 20000417

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 16349

Fulltext Availability:

Detailed Description

Detailed Description

... by its vast reach as a result of its wide and increasing availability and easy **access** protocols.

Unfortunately, the heterogeneous nature of the Internet results in variable bandwidth and quality of...



...LAN and WAN environments.

2

A particular need exists in environments that involve multiple users **accessing** a network resource such as a web server. Examples include broadcast, multicast and videoconferencing as...a physical connection between the various devices through network 101.

Routers 109 may implement desired **access** and security protocols to manage **access** through network 101.

Network appliances 107 may also couple to network 1 01 through 0...

...it is often desirable to provide one or more locations of shared storage such as **disk farm** (not shown) that provides mass storage capacity beyond what an individual device can efficiently use...

...extended to client software other than conventional web browser

7/3,K/45 (Item 18 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00842039 \*\*Image available\*\*

**PERSONA DATA STRUCTURE AND SYSTEM FOR MANAGING AND DISTRIBUTING  
PRIVACY-CONTROLLED DATA**

**STRUCTURE DE DONNEES DE PERSONA ET SYSTEME DE GESTION ET DE DISTRIBUTION DE  
DONNEES PROTEGEES CONTRE LES INDISCRETIONS**

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Legal Representative:

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17th Street, Denver, CO 80202, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200175724 A1 20011011 (WO 0175724)

Application: WO 2001US10037 20010330 (PCT/WO US0110037)

Priority Application: US 2000541149 20000331

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 10846

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... by its vast reach as a result of its wide  
and increasing availability and easy **access** protocols. Although other  
communication network technologies and protocols are available including  
wireless networks, fibre channel...

...stored in cookies is transmitted from the browser. For example, a cookie  
can only be **accessed** by a web site in  
the same domain as the server that wrote the cookie...amongst user  
machines so that a similar information is stored on each machine used to  
**access** a web site. In view of the trend towards users  
**accessing** network resources using a larger number and variety of  
network  
appliances, this duplication of information...

...private information is stored on more and different kinds of machine,  
the risk of unauthorized **access** to this private information increases

dramatically. Accordingly, @ need exists for a system, method and protocol...

...it is often desirable to provide one or more locations of shared storage such as **disk farm 1 1 6** that provides mass storage capacity beyond what an individual device can efficiently...is exchanged as well as which web sites 21 0 are able 3 0 to **access** the data.

7

The privacy enhanced features of the present invention are provided by the...

...a corporate intranet can use the mechanisms in accordance with the present invention to enable **access** control to shared resources such as files, computer systems, inventory management systems and the like...

...type of transaction is privacy enhanced by virtue of a persistent association between persona data and **usage** permissions established by one or more managers of the persona. Examples include using the persona...

...200 implements a browser program 201 0 that is outfitted with a lockbox 202 and **accesses** a conventional cookie file 203.

Lockbox 202 may be implemented as a plug-in component...response procedure. Privacy engine web server 221 generates web pages that enable a user to **access** registration services within privacy applications 222. Alternatively, client 200 could conduct transactions directly with exposed APIs of the privacy applications, although this direct **access** method may be more difficult to implement because it does not leverage the existing Internet...

...0 page) generated by web site 21 0. Web site 21 0 includes a persona **access** kit (PAK) component 212 that includes methods for **accessing** privacy applications 222. In this manner, web site 21 0 can **access** privacy applications such as registration and portal services through its own interface while at the...

...and control of the created persona in a manner consistent with personas created by direct **access** to privacy engine web site 220. This feature enables the privacy services to be "co..."

...is itself conveniently implemented using a web server 221 that acts as an interface for **accessing** privacy applications 222 2 0 and persona vault 223. Although a single web server 221...

...the like for implementing various privacy related services. The privacy applications expose APIs that are **accessible** by web server 221. Privacy engine web site 220 is also an **access** point for persona vault 3 0 223 which contains the persistent versions of personas. Privacy applications

1 1

include various vault **access** mechanisms (e.g., portal services, registration, login, etc.) that enable **access** to data within persona vault 223. The persona data held in vault 223 can be of enormous value

11/3,K/1 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01731367 03-82357

**ADIC's DLT array 5 is 'not a general back up tool'**

Glatzer, Hal

Computer Technology Review v18n10 PP: 4 Oct 1998

ISSN: 0278-9647 JRNL CODE: CTN

WORD COUNT: 607

...TEXT: Think of this array as suitable for situations where you can put in large [hard] **disk farms** , for doing large data transfer **rates** in inflexible windows."

Whitner acknowledged that Compaq and Hewlett-Packard offer competing DLT arrays. But...

11/3,K/2 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2005 ProQuest Info&Learning. All rts. reserv.

01324831 99-74227

**HotSauce maps data into 3-D format**

Johnson, R Colin

Electronic Engineering Times n924 PP: 140 Oct 21, 1996

ISSN: 0192-1541 JRNL CODE: ELET

WORD COUNT: 1195

...TEXT: HotSauce technologies and development tools are provided free for the download, with no licensing or **usage fees** .

"What we are providing is a meta-level between the applications that have the data...

11/3,K/3 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00903480 95-52872

**Online service vendors rethink pricing strategy**

Darrow, Barbara

Computer Reseller News n591 PP: 55, 58 Aug 15, 1994

ISSN: 0893-8377 JRNL CODE: CRN

WORD COUNT: 688

...ABSTRACT: see vendors going to a tiered model in the near term, where a low, flat **fee** covers most **access** , but value-added services such as specialized databases are pricier. ...

...TEXT: see vendors going to a tiered model in the near term, where a low, flat **fee** covers most **access** , but value-added services such as specialized databases are pricier.

"There are two forces at...

...enough to get nontechies to log on.

Right now many services charge a flat monthly **fee** for a certain amount of

Sylvia Keys

11-May-05 10:55 AM

usage time and then a per-minute charge when that limit is exceeded.  
Others have a...

11/3,K/4 (Item 1 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

08211518 Supplier Number: 67719320 (USE FORMAT 7 FOR FULLTEXT)  
**Hard-Disk Capacities For 3.5-In. Drives Are On The Rise.(Technology Information)**  
Wong, William  
Electronic Design, v48, n24, p105  
Nov 20, 2000  
Language: English Record Type: Fulltext Abstract  
Document Type: Magazine/Journal; Trade  
Word Count: 4198

... large-file applications, such as audio and video editing, and CAD.  
It's useful in **disk farms** that have high transaction **rates**, too. Most  
large-cache drives are SCSI or Fibre Channel types where multiple  
operations can...

11/3,K/5 (Item 2 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

04633489 Supplier Number: 46816448 (USE FORMAT 7 FOR FULLTEXT)  
**HotSauce maps data into 3-D format**  
Electronic Engineering Times, p140  
Oct 21, 1996  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1194

... HotSauce technologies and development tools are provided free for  
the download, with no licensing or **usage fees**.  
"What we are providing is a meta-level between the applications that  
have the data...

11/3,K/6 (Item 3 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

03513198 Supplier Number: 44919883 (USE FORMAT 7 FOR FULLTEXT)  
**Online service vendors rethink pricing strategy**  
Computer Reseller News, p55  
August 15, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 704

... see vendors going to a tiered model in the near term, where a low,  
flat **fee** covers most **access**, but value-added services such as  
specialized databases are pricier.  
There are two forces at...

...enough to get nontechies to log on.

Right now many services charge a flat monthly **fee** for a certain amount of **usage** time and then a per-minute charge when that limit is exceeded. Others have a...

11/3,K/7 (Item 4 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

03318408 Supplier Number: 44587078 (USE FORMAT 7 FOR FULLTEXT)  
**Programming speedy applications**  
Electronic Engineering Times, pS14  
April 11, 1994  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 2527

... bursts at the faster output enable rate of the memory, instead of the slower address **access rate**. This improves performance considerably in block-transfer-oriented designs, but does require more memory devices...

11/3,K/8 (Item 5 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

01625088 Supplier Number: 42006677 (USE FORMAT 7 FOR FULLTEXT)  
**Making RISC chips work in embedded controllers**  
Electronic Engineering Times, p55  
April 15, 1991  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 1163

... less, low-cost applications). The ARM200 processor uses a 1X clock that translates to memory **accesses** occurring at a **rate** up to 16 million memory transactions per second.

Power consumption can be a key factor...

11/3,K/9 (Item 6 from file: 16)  
DIALOG(R)File 16:Gale Group PROMT(R)  
(c) 2005 The Gale Group. All rts. reserv.

01388462 Supplier Number: 41652300 (USE FORMAT 7 FOR FULLTEXT)  
**CORPORATE ANALYSIS AND CONTROL OF DISK SPACE**  
News Release, p1  
Nov 2, 1990  
Language: English Record Type: Fulltext  
Document Type: Magazine/Journal; Trade  
Word Count: 720

... interface for faster, more flexible analysis of space utilization.

"Storage is increasing at a burgeoning **rate** with the implementation of larger **disk farms**. What is required is a means of managing the disk subsystem, especially in times of...

11/3,K/10 (Item 1 from file: 47)  
DIALOG(R)File 47:Gale Group Magazine DB(TM)  
(c) 2005 The Gale group. All rts. reserv.

03395605 SUPPLIER NUMBER: 08489726 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Has the mini met its match? (microcomputer benchmarks - includes related article on the Netherlands Central Bureau of Statistics information systems decentralization)**

Keller, Wouter J.

Datamation, v36, n9, p62(4)

May 1, 1990

ISSN: 1062-8363

LANGUAGE: ENGLISH

RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 2869 LINE COUNT: 00217

... modern minicomputer disk comes with 400MB to 1.2GB capacity, a 2 to 3MBPS transfer **rate**, and a 16 millisecond **access** time. Yet there is a major difference to consider here--minicomputers, unlike PCs, often have...

11/3,K/11 (Item 1 from file: 148)  
DIALOG(R)File 148:Gale Group Trade & Industry DB  
(c)2005 The Gale Group. All rts. reserv.

10366381 SUPPLIER NUMBER: 20992455 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Speed Does Matter: Gigabit Switch Chip Raises The Bar.**

Goldberg, Lee

Electronic Design, v46, n17, p53(1)

July 20, 1998

ISSN: 0013-4872

LANGUAGE: English

RECORD TYPE: Fulltext; Abstract

WORD COUNT: 2604 LINE COUNT: 00210

... number of Fast Ethernet ports into a single channel lets it inhale data from a **disk farm** or server at an enormous **rate**. In work groups that routinely process large amounts of high-speed multimedia, it could have...

11/3,K/12 (Item 1 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

02443194 SUPPLIER NUMBER: 65491069 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**E-COMMERCE MANAGEMENT -- HOW TO GET THE MOST FROM A HOST -- Use this five-step plan to get the best deal from a Web hosting provider. (Industry Trend or Event)**

Mullich, Joe

InternetWeek, 97

Sept 25, 2000

ISSN: 1096-9969

LANGUAGE: English

RECORD TYPE: Fulltext

WORD COUNT: 2682 LINE COUNT: 00209

... Business Services.

Consider it a good sign if the ISP provides historical data on monthly **accessibility rates** for the sites it hosts. The provider should know how to measure and quantify this...

11/3,K/13 (Item 2 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

01525906        SUPPLIER NUMBER: 12375480        (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Storage: what's in store. (includes related articles on EMC's Symmetrix storage device and level of RAID)**  
Hugo, Ian  
IBM System User, v13, n5, p19(3)  
May, 1992  
ISSN: 0950-303X        LANGUAGE: ENGLISH        RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT:    1609        LINE COUNT:    00126

...        analysed. Because of the need to allow for data set expansion and to sustain reasonable **access rates**, most DASD was, until recently, run at only 30-40 per cent of capacity; today...

**11/3,K/14        (Item 3 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

01461175        SUPPLIER NUMBER: 11485390        (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**I/O subsystem performance: part 7: the theories, advantages and disadvantages of different methods of disk striping. (Input/Output) (Storage) (Technical)**  
Bates, Kenneth H.  
DEC Professional, v10, n12, p60(7)  
Nov, 1991  
DOCUMENT TYPE: Technical        ISSN: 0744-9216        LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT:    4364        LINE COUNT:    00327

...        the effective memory speed can be nearly doubled.  
Disk striping uses the principle of overlapped **accesses** to increase the data **rate**. Picture a transfer request for logical blocks 0 through 7. In a traditional disk drive...

...wait for the first to complete, it finishes much more quickly.  
When many applications are **accessing** data at a high request **rate**, the statistical distribution of the requests from striping spreads the load across the members of...specific files instead of physical units. In this scheme, an application that needs increased data **rates** calls software library routines to **access** the file. These routines place pieces of each file on separate disks. The individual disks...

**11/3,K/15        (Item 4 from file: 275)**  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

01435271        SUPPLIER NUMBER: 10843982        (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Disk farm cultivation: Advanced Systems Concepts' Virtuoso virtual disk system and Shadow disk mirroring system propagate disk management and reliability. (Software Review) (evaluation)**  
Sobel, Barry  
DEC Professional, v10, n5, p103(4)  
May, 1991  
DOCUMENT TYPE: evaluation        ISSN: 0744-9216        LANGUAGE: ENGLISH  
RECORD TYPE: FULLTEXT; ABSTRACT  
WORD COUNT:    1760        LINE COUNT:    00135

...        command with the /PERM qualifier.



We ran VDBM, a disk benchmark program that measures average **access** time, data throughput **rates** and the combined VMS and disk controller overhead, on LARGE. (See "Disk Benchmark" by David...  
CAPTIONS: (Comparing **access** time and transfer **rates** for various disks). (graph); Advanced Systems Concepts Inc. (table)

**11/3,K/16** (Item 5 from file: 275)  
DIALOG(R)File 275:Gale Group Computer DB(TM)  
(c) 2005 The Gale Group. All rts. reserv.

01323200 SUPPLIER NUMBER: 07580798 (USE FORMAT 7 OR 9 FOR FULL TEXT)  
**Issues of the future. (intellectual property)**  
Release 1.0, v89, n8, p18(3)  
August 21, 1989  
ISSN: 1047-935X LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT  
WORD COUNT: 4350 LINE COUNT: 00363

... to charge: Does the information supplier get an overall royalty, or is it feasible to **charge** per **access** ? Or should you just sell it on a CD ROM and forget the details? What...

**11/3,K/17** (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

00521938  
**System and method for efficiently indexing and storing large database with high-data insertion frequency.**  
**Verfahren und Gerat um eine grosse Datenbank mit hoher Dateneinlesefrequenz rationell zu indexieren und zu speichern.**  
**Procede et dispositif pour indexer et stocker une grande base de donnees avec un haute frequence d'insertion d'une facon effective.**  
PATENT ASSIGNEE:  
DIGITAL EQUIPMENT CORPORATION, (313080), 146 Main Street, Maynard, MA 01754, (US), (applicant designated states: DE;FR;GB;IT)  
INVENTOR:  
Chi-Man Cheng, Edward, 2650 Meath Drive, San Francisco CA 94080, (US)  
Gawlick, Dieter, 757 Paul Avenue, Palo Alto CA 94306, (US)  
O'Neil, Patrick E., 7 Whittier Road, Lexington, MA 02173, (US)  
LEGAL REPRESENTATIVE:  
Charig, Raymond Julian (79692), Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD, (GB)  
PATENT (CC, No, Kind, Date): EP 522363 A2 930113 (Basic)  
EP 522363 A3 931201  
APPLICATION (CC, No, Date): EP 92110758 920626;  
PRIORITY (CC, No, Date): US 722007 910627  
DESIGNATED STATES: DE; FR; GB; IT  
INTERNATIONAL PATENT CLASS: G06F-015/419;  
ABSTRACT WORD COUNT: 199

LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	EPABF1	3105
SPEC A	(English)	EPABF1	6572
Total word count - document A			9677
Total word count - document B			0
Total word count - documents A + B			9677

...SPECIFICATION indexed pointers in the SBT exceeds a specified number.  
This type of criteria minimizes disk **access** , and also paces the **rate**  
at which merges are performed so as to keep the SBT 148 close to a...

...to the banking system example discussed in the background of the  
invention, consider the disk **usage rate** required by the present  
invention to handle 100 indexed pointer inserts per second, with each...

11/3,K/18 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00856069 \*\*Image available\*\*

**METHODS AND APPARATUS FOR ADMINISTERING A SERVER, INITIALIZING A SERVER,  
AND MANAGING SERVER LOAD**  
**PROCEDES ET DISPOSITIF D'ADMINISTRATION ET D'INITIALISATION DE SERVEUR, ET  
DE GESTION DE CHARGE DE SERVEUR**

Patent Applicant/Assignee:

CITRIX SYSTEMS INC, 851 W. Cypress Creek Road, Fort Lauderdale, FL 33309,  
US, US (Residence), US (Nationality)

Inventor(s):

FREEMAN Thomas D, 9433 South Dunbar Cove, South Jordan, UT 84095, US,  
PEDERSEN Bradley Jay, 7700 South Woodridge Drive, Parkland, FL 33067, US,

WOODBURY Daniel Nicholes, 1207 West 3420 North, Pleasant Grove, UT 84062,  
US,

UNGERMAN Anthony, 18039 Jazz Lane, Boca Raton, FL 33496-3349, US,  
BLAIR Jeffrey Dale, 136 West 1340 North, American Fork, UT 84003, US,  
DU Haikun, 1640 North 599 East, Orem, UT 84097, US,  
GRAVES Morris Russel Jr, 549 West 6300 South, Murray, UT 84123, US,  
GULKIS Daniel Alec, 572 SW 179th Avenue, Pembroke Pines, FL 33029, US,

Legal Representative:

RODRIGUEZ Michael A (agent), Testa, Hurwitz & Thibeault, LLP, High Street  
Tower, 125 High Street, Boston, MA 02110, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200188710 A2-A3 20011122 (WO 0188710)

Application: WO 2001US14314 20010503 (PCT/WO US0114314)

Priority Application: US 2000566898 20000508; US 2000566028 20000508; US  
2000567448 20000508

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 39356

Fulltext Availability:

Detailed Description

Detailed Description

... service a client request. For example, operational meters may measure:

Sylvia Keys

11-May-05 10:55 AM

processor load; context switches; memory **usage** ; page faults; page swaps; transmission **rate** of input/output reads or writes; number of input/output operations performed. In one embodiment...

11/3,K/19 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00853799 \*\*Image available\*\*

**A METHOD AND APPARATUS FOR COMMUNICATING AMONG A NETWORK OF SERVERS**  
**PROCEDE ET APPAREIL PERMETTANT D'ETABLIR UNE COMMUNICATION DANS UN RESEAU**  
**DE SERVEURS**

Patent Applicant/Assignee:

CITRIX SYSTEMS INC, 851 W. Cypress Creek Road, Fort Lauderdale, FL 33309,  
US, US (Residence), US (Nationality)

Inventor(s):

FREEMAN Thomas D, 9433 South Dunbar Cove, South Jordan, UT 84095, US,  
PEDERSEN Bradley Jay, 7700 South Woodridge Drive, Parkland, FL 33067, US,

Legal Representative:

RODRIGUEZ Michael A (agent), Testa, Hurwitz & Thibeault, LLP, High Street Tower, 125 High Street, Boston, MA 02110, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200186441 A2-A3 20011115 (WO 0186441)

Application: WO 2001US40661 20010503 (PCT/WO US0140661)

Priority Application: US 2000567450 20000508; US 2000566590 20000508; US 2000567456 20000508

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS  
LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 39594

Fulltext Availability:

Detailed Description

Detailed Description

... service a client request. For example, operational meters may measure: processor load; context switches; memory **usage** ; page faults; page swaps; transmission **rate** of input/output reads or writes; number of input/output operations performed. In one embodiment...

11/3,K/20 (Item 3 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2005 WIPO/Univentio. All rts. reserv.

00853790 \*\*Image available\*\*

**A SYSTEM AND METHOD FOR DIRECTING RUNTIME DATA IN A SERVER NETWORK**

**SYSTEME ET PROCEDE D'ENVOI DE DONNEES OPERATIONNELLES DANS UN RESEAU DE SERVEURS**

Patent Applicant/Assignee:

CITRIX SYSTEMS INC, 851 W. Cypress Creek Road, Fort Lauderdale, FL 33309, US, US (Residence), US (Nationality)

Inventor(s):

FREEMAN Thomas D, 9433 South Dunbar Cove, South Jordan, UT 84095, US,  
PEDERSEN Bradley Jay, 7700 South Woodridge Drive, Parkland, FL 33067, US,

Legal Representative:

RODRIGUEZ Michael A (agent), Testa, Hurwitz & Thibeault, LLP, High Street Tower, 125 High Street, Boston, MA 02110, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200186414 A2-A3 20011115 (WO 0186414)

Application: WO 2001US14319 20010503 (PCT/WO US0114319)

Priority Application: US 2000567450 20000508; US 2001767774 20010123; US 2001768110 20010123

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS

Sylvia Keys

11-May-05 10:56 AM

LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ  
TM TR TT TZ UA UG UZ VN YU ZA ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 38803

Fulltext Availability:

Detailed Description

Detailed Description

... service a client request. For example, operational meters may measure:  
processor load; context switches; memory **usage** ; page faults; page  
swaps; transmission **rate** of input/output reads or writes; number of  
input/output operations performed. In one embodiment...

11/3,K/21 (Item 4 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

(c) 2005 WIPO/Univentio. All rts. reserv.

00779726 \*\*Image available\*\*

**SYSTEM AND METHOD FOR SECURE DISTRIBUTION AND ON-LINE ELECTRONIC USAGE  
MANAGEMENT**

**SYSTEME ET PROCEDE PERMETTANT DE SECURISER LA DISTRIBUTION ET LA GESTION DE  
L'UTILISATION ELECTRONIQUE EN LIGNE**

Patent Applicant/Inventor:

JASRASARIA Suresh K, 115 Blanchard Road, Boxboro, MA 01719, US, US

(Residence), US (Nationality)

Legal Representative:

COHEN Jerry, Perkins, Smith & Cohen, LLP, One Beacon Street, 30th Floor,  
Boston, MA 02108, US

Patent and Priority Information (Country, Number, Date):

Patent: WO 200113310 A1 20010222 (WO 0113310)

Application: WO 2000US22823 20000818 (PCT/WO US0022823)

Priority Application: US 99149826 19990819; US 99162591 19991029; US  
2000641357 20000817

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 9991

Fulltext Availability:

Detailed Description

Detailed Description

... depending upon the communications lines and  
hardware the subscriber is willing to deploy and the **usage fee**

Sylvia Keys

11-May-05 10:56 AM

File 344:Chinese Patents Abs Aug 1985-2004/May  
(c) 2004 European Patent Office  
File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)  
(c) 2005 JPO & JAPIO  
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200529  
(c) 2005 Thomson Derwent  
File 348:EUROPEAN PATENTS 1978-2005/May W01  
(c) 2005 European Patent Office  
File 349:PCT FULLTEXT 1979-2005/UB=20050505,UT=20050428  
(c) 2005 WIPO/Univentio  
File 331:Derwent WPI First View UD=200529  
(c) 2005 Thomson Derwent  
File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	245	(DISK OR COMPILE OR COMPUTE) (1W) (FARM OR FARMS OR CLUSTER?)
S2	1436	(ACCESS? OR USAGE) (3N) (TIME() (FRAME? OR BASED OR PERIOD OR PERIODS))
S3	358201	((ACCESS? OR USAGE) (3N) (TIMED OR TIME OR TIMES) OR PRESET?)
S4	2671	(ACCESS? OR USAGE) (3N) SCHEDUL?
S5	16468	(ACCESS? OR USAGE) (3N) (CHARGE OR CHARGES OR COST OR COSTS - OR BILLABLE? OR BILLED OR BILLING? OR RATE OR RATES)
S6	31092	AU=(YAMAMOTO, M? OR YAMAMOTO M? OR YAMAMOTO, A? OR YAMAMOTO A?)
S7	2	S1(10N) (S2 OR S3 OR S4)
S8	2	S1(10N) (CHARGE OR CHARGES OR COST OR COSTS OR BILLABLE? OR BILLED OR BILLING? OR RATE OR RATES)
S9	2	S8 NOT S7
S10	1	S1(10N)METER?
S11	0	S10 NOT (S7 OR S9)
S12	1	S6 AND S1

7/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

01633733

**Storage system, disk control cluster, and a method for increasing the  
number of disk control clusters in a storage system**  
**Speichersystem, Plattensteuerungsgruppe, und Verfahren zur Erhöhung der  
Anzahl der Plattensteuerungsgruppen in einem Speichersystem**  
**Systeme de stockage, groupe de controle de disques, et procede pour  
augmenter le nombre de groupes de controle de disques dans un systeme  
de stockage**

PATENT ASSIGNEE:

Hitachi, Ltd., (204151), 6, Kanda Surugadai 4-chome, Chiyoda-ku, Tokyo  
101-8010, (JP), (Applicant designated States: all)

INVENTOR:

Fujimoto, Kazuhisa, c/o Hitachi, Ltd., Intel. Prop. Group, New Marunouchi  
Bldg., 5-1,, Marunouchi 1-chome, Chiyoda-ku, Tokyo, (JP)

LEGAL REPRESENTATIVE:

Strehl Schubel-Hopf & Partner (100941), Maximilianstrasse 54, 80538  
Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1347366 A2 030924 (Basic)

APPLICATION (CC, No, Date): EP 2002018811 020822;

PRIORITY (CC, No, Date): JP 200277499 020320

DESIGNATED STATES: AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR;  
IE; IT; LI; LU; MC; NL; PT; SE; SK; TR

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-003/06

ABSTRACT WORD COUNT: 137

NOTE:

Figure number on first page: 1

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200339	2480
SPEC A	(English)	200339	13141
Total word count - document A			15621
Total word count - document B			0
Total word count - documents A + B			15621

...CLAIMS said global information control unit when an error took place in  
some part of the **disk control cluster** or a load of some part  
became higher than a **preset** value.

16. The storage system as set forth in any of claims 1 to 8...

7/3,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

00709721

**Coding apparatus**

**Kodierungsvorrichtung**

**Dispositif de codage**

PATENT ASSIGNEE:

Hewlett-Packard Company, A Delaware Corporation, (3016020), 3000 Hanover  
Street, Palo Alto, CA 94304, (US), (Proprietor designated states: all)

INVENTOR:

Seroussi, Gadiel, 1123 Milky Way, Cupertino, California 95014, (US)





9/3,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00766091 \*\*Image available\*\*

**VIRTUAL DISTRIBUTED MULTIMEDIA REGULATED GAMING METHOD AND SYSTEM BASED ON  
ACTUAL CASINO GAMES**

**PROCEDE ET SYSTEME DE JEU DE SIMULATION REGLEMENTE MULTIMEDIA  
VIRTUEL/DISTRIBUE**

Patent Applicant/Inventor:

KARMARKAR Jayant S, 712 Via Palo Alto, Aptos, CA 95003, US, US  
(Residence), US (Nationality)

Legal Representative:

KING Patrick T (agent), 73 Penny Lane, Watsonville, CA 95076, US,  
Patent and Priority Information (Country, Number, Date):

Patent: WO 200079467 A2-A3 20001228 (WO 0079467)

Application: WO 2000US40242 20000619 (PCT/WO US0040242)

Priority Application: US 99336056 19990618

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE  
GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK  
MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN  
YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Publication Language: English

Filing Language: English

Fulltext Word Count: 26800

Fulltext Availability:

Detailed Description

Detailed Description

... computer with a 128 Mbyte SDRAM, 32 Mbyte display RAM, and a 144  
Gbyte hard **disk farm** operating at a sustained 40 Mbyte/sec **rate** or  
the equivalent thereof, from IBM, Dell, Intel, Compaq, Gateway, Sony,  
Hitachi, HP, Motorola. Apple...

9/3,K/2 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
(c) 2005 WIPO/Univentio. All rts. reserv.

00482074 \*\*Image available\*\*

**AUTOMATED METER READING SYSTEM**

**SYSTEME DE LECTURE AUTOMATIQUE DES COMPTEURS**

Patent Applicant/Assignee:

ABB POWER T & D COMPANY INC,

Inventor(s):

KELLEY Raymond H,  
CARPENTER Richard Christopher,  
LUNNEY Robert H,  
MARTINEZ Maureen,  
KENNEY Jonathan Q,  
MILL David Ethan,  
HUBBARD Charles Keith,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9913426 A1 19990318

Application: WO 98US19034 19980911 (PCT/WO US9819034)

Priority Application: US 9758659 19970911; US 9882647 19980521; US 9882758 19980521; US 9882568 19980521; US 9882811 19980521

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AU BR CA MX AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Publication Language: English

Fulltext Word Count: 46136

Fulltext Availability:

Detailed Description

Detailed Description

... and may further participate in a loosely-coupled cluster of machines that address a shared **disk farm** .

Meters 60 can be associated with one-or-more **Rates** , combined into Meter Groups, and have many Capabilities and Abilities. Capabilities are based upon meters...

?

12/3,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
(c) 2005 European Patent Office. All rts. reserv.

00970324

Apparatus and methods for recording and/or reproducing data on to and/or  
from optical disks and disk cartridges for such disks  
Verfahren und Vorrichtungen zur Datenaufzeichnung und/oder -wiedergabe auf  
und/oder von optischen Platten, und Plattenkassetten für solche Platten  
Appareil et methodes pour l'enregistrement et/ou la reproduction de donnees  
sur disques optiques, et cassette a disque pour tels disques

PATENT ASSIGNEE:

SONY CORPORATION, (214025), 6-7-35 Kitashinagawa Shinagawa-ku, Tokyo 141,  
(JP), (Applicant designated States: all)

INVENTOR:

Owa, Hideo, c/o Sony Corporation, Intell Prop Dept, 6-7-35 Kitashinagawa,  
Shinagawa-ku, Tokyo 141, (JP)

Kobayashi, Shoei, c/o Sony Corporation, Intell Prop Dept, 6-7-35  
Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

Sensyu, Susumu, c/o Sony Corporation, Intell Prop Dept, 6-7-35  
Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

Katsuramoto, Shinji, c/o Sony Corporation, Intell Prop Dept, 6-7-35  
Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

Watanabe, Toshio, c/o Sony Corporation, Intell Prop Dept, 6-7-35  
Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

Mori, Hidenori, c/o Sony Corporation, Intell Prop Dept, 6-7-35  
Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

**Yamamoto, Masanobu, c/o Sony Corporation**, Intell Prop Dept, 6-7-35  
Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

Saito, Masaki, c/o Sony Corporation, Intell Prop Dept, 6-7-35  
Kitashinagawa, Shinagawa-ku, Tokyo 141, (JP)

LEGAL REPRESENTATIVE:

Pilch, Adam John Michael (50481), D. YOUNG & CO., 21 New Fetter Lane,  
London EC4A 1DA, (GB)

PATENT (CC, No, Kind, Date): EP 880131 A2 981125 (Basic)  
EP 880131 A3 010207

APPLICATION (CC, No, Date): EP 98303864 980515;

PRIORITY (CC, No, Date): JP 97127729 970519; JP 97127731 970519

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G11B-007/125; G11B-007/135; G11B-007/12;  
G11B-007/013; G11B-007/007; G11B-020/00

ABSTRACT WORD COUNT: 91

NOTE:

Figure number on first page: 7

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9848	2100
SPEC A	(English)	9848	30024
Total word count - document A			32124
Total word count - document B			0
Total word count - documents A + B			32124

INVENTOR:

... JP)

**Yamamoto, Masanobu, c/o Sony Corporation** ...

...SPECIFICATION circuit 37 due to, for example, dust or the like on the

surface of the **disk** , the **cluster** counter 38 may interpolate the cluster start pulse by a synchronization processing with the counting...

File 256:TecInfoSource 82-2005/Mar  
(c) 2005 Info.Sources Inc  
File 2:INSPEC 1969-2005/Apr W4  
(c) 2005 Institution of Electrical Engineers  
File 35:Dissertation Abs Online 1861-2005/Apr  
(c) 2005 ProQuest Info&Learning  
File 65:Inside Conferences 1993-2005/May W2  
(c) 2005 BLDSC all rts. reserv.  
File 99:Wilson Appl. Sci & Tech Abs 1983-2005/Apr  
(c) 2005 The HW Wilson Co.  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 474:New York Times Abs 1969-2005/May 10  
(c) 2005 The New York Times  
File 475:Wall Street Journal Abs 1973-2005/May 10  
(c) 2005 The New York Times

Set	Items	Description
S1	335	(DISK OR COMPILE OR COMPUTE) (1W) (FARM OR FARMS OR CLUSTER?)
S2	68	(ACCESS? OR USAGE) (3N) (TIME() (FRAME? OR BASED OR PERIOD OR PERIODS))
S3	22958	((ACCESS? OR USAGE) (3N) (TIMED OR TIME OR TIMES) OR PRESET?)
S4	945	(ACCESS? OR USAGE) (3N) SCHEDUL?
S5	8548	(ACCESS? OR USAGE) (3N) (CHARGE OR CHARGES OR COST OR COSTS - OR BILLABLE? OR BILLED OR BILLING? OR RATE OR RATES)
S6	6730	AU=(YAMAMOTO, M? OR YAMAMOTO M? OR YAMAMOTO, A? OR YAMAMOTO A?)
S7	2	S1 AND (S2 OR S3 OR S4)
S8	1	S1 AND S5
S9	1	S8 NOT S7
S10	50	S1 AND (CHARGE OR CHARGES OR COST OR COSTS OR BILLABLE? OR BILLED OR BILLING? OR RATE OR RATES)
S11	48	S10 NOT (S7 OR S9)
S12	8	S11 AND (ACCESS? OR USAGE?)
S13	8	RD (unique items)
S14	0	S6 AND S1

7/5/1 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01431483 ORDER NO: AADAA-I9529259

**TERTIARY STORAGE: AN EVALUATION OF NEW APPLICATIONS ( DISK FARMS , TAPE STRIPING)**

Author: CHERVENAK, ANN LOUISE  
Degree: PH.D.  
Year: 1994  
Corporate Source/Institution: UNIVERSITY OF CALIFORNIA, BERKELEY (0028)  
Chair: RANDY H. KATZ  
Source: VOLUME 56/05-B OF DISSERTATION ABSTRACTS INTERNATIONAL.  
PAGE 2716. 175 PAGES  
Descriptors: COMPUTER SCIENCE  
Descriptor Codes: 0984

This thesis focuses on an often-neglected area of computer system design: tertiary storage. In the last decade, several advances in tertiary storage have made it of increasing interest, including increased tape capacities, less expensive tape drives and optical disk drives, and the proliferation of robots for loading tertiary devices automatically. Concurrently, faster processor speeds have enabled a growing number of applications that would benefit from fast access to massive storage. We evaluate the usefulness of current tertiary storage systems for some of these new applications.

First, we describe the design and performance of tertiary storage products. Next, we evaluate the technique of data striping in tape arrays. We find that tape striping improves the performance of sequential workloads. However, striped tape systems perform poorly for applications in which there are several non-sequential, concurrent requests active in the tape library because of contention for a small number of tape drives.

We characterize two new workloads: video-on-demand servers and digital libraries. For the former, we evaluate design alternatives for providing storage in a movies-on-demand system. First, we study **disk farms** in which one movie is stored per disk. This is a simple scheme, but it wastes substantial disk bandwidth, since disks holding less popular movies are under-utilized; also, good performance requires that movies be replicated to reflect the user request pattern. Next, we examine **disk farms** in which movies are striped across disks, and find that striped video servers offer close to full utilization of the disks by achieving better load balancing. Finally, we evaluate the use of storage hierarchies for video service that include a tertiary library along with a **disk farm**. Unfortunately, we show that the performance of neither magnetic tape libraries nor optical disk jukeboxes as part of a storage hierarchy is adequate to service the predicted distribution of movie accesses.

Throughout the dissertation, we identify several desirable changes in tertiary storage systems. To support new applications with higher concurrencies, tertiary libraries should be redesigned with a higher ratio of drives to media, higher bandwidth per drive and faster **access times**.

7/5/2 (Item 1 from file: 583)  
DIALOG(R)File 583:Gale Group Globalbase(TM)  
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04982768

IBM deploie son offre pour le stockage de donnees  
FRANCE - NEW DATA STORAGE PRODUCTS FROM IBM  
Monde Informatique (LMI) 16 March 1992 p5  
ISSN: 0242-5769

Sylvia Keys

11-May-05 09:02 AM

Language: French

IBM presented several new magnetic and optical storage products as well as some prototypes, at Cebit 92. The products are all designed for OEM (Original Equipment Manufacturer) clients and include two new 2.5 in disk drives, a 0.67 in high, 120 Mbyte model and a 0.5 in high, 60 Mbyte model that will be available next quarter. In third quarter, IBM is due to introduce 3.5 in, magnetoresistive head disk drives featuring a storage capacity of 1.2 Gbytes. The company has also introduced two low-end 3.5 in disk drives, an 80 Mbyte model and a 160 Mbyte model. IBM has introduced a 5.25 in rewritable optical disk drive as well as a faster version of its 2.5 in, 127 Mbyte rewritable optical disks that now feature a transfer rate of 625 kbytes/sec, **access times** of 40 msec and rotation speed of 3,000 revolutions/min. Amongst the prototypes presented by IBM were 3.5 in disk drives with magnetoresistive heads and storage capacities of 1.6 Gbytes and 2 Gbytes, and a 7 Gbyte capacity **disk cluster** storage unit for 3.5 in, 400 Mbyte or 1 Gbyte, disks. In third quarter 1992, OEM customers will be able to obtain a rack-mounted magnetic tape sub-system from IBM. This will be available in three versions with back-up capacities ranging from 14.4 Gbytes to 28.8 Mbytes.

COMPANY: INTERNATIONAL BUSINESS MACHINES

PRODUCT: Optical Storage (36790P);

EVENT: NEW PRODUCT EXTENSION (33); NEW PRODUCT EXTENSION (33);

COUNTRY: France (4FRA); Northern Europe (414); OECD Europe (415); European Economic Community Countries (419); NATO Countries (420); South East Asia Treaty Organisation (913);

?

9/5/1 (Item 1 from file: 256)  
DIALOG(R)File 256:TecInfoSource  
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00128043 DOCUMENT TYPE: Review

PRODUCT NAMES: Company--Blackstone Technology Group Inc (873519)

TITLE: Compute Farms Bring Power to the PC  
AUTHOR: Essex, David  
SOURCE: Computerworld, v35 n4 p70(1) Jan 22, 2001  
ISSN: 0010-4841  
HOMEPAGE: <http://www.computerworld.com>

RECORD TYPE: Review  
REVIEW TYPE: Company

Blackstone Technology, a provider of ComputeFarm software and services, offers **cost** -effective **access** to processing CPU cycles for computing-heavy applications. Partners include Compaq, Sun Microsystems, Veritas Software, and other companies. Customers include 3Com, Biogen, EMC, Vertex Pharmaceuticals, and other companies. According to the manager of systems administration for NEC, Christa Schidzik, who is also a user of ComputeFarm Advantage consulting services and software, NEC was able to increase its server utilization to about 25 percent, and 50 users could can access a farm within a week. NEC had previously been using large servers for each department, but they were not sufficient. Schidzik decided to try Blackstone's **compute farms**, which are servers pooled to create one computing resource that is optimized for CPU and memory-hogging applications. Offerings range from the building of **compute farms** from scratch to reconfiguration and management. Biogen chose **Compute - Farm** Advantage over more general purpose offerings and will use the added capacity to do data analysis that ferrets out pharmaceutical targets in the human genome. Blackstone plans to move into other compute-heavy markets, including financial risk modeling, digital content creation, oil and gas exploration, and mechanical design automation.

COMPANY NAME: Blackstone Technology Group Inc (694452)  
SPECIAL FEATURE: Charts  
DESCRIPTORS: Network Servers; Network Software; Supercomputing; System Performance  
REVISION DATE: 20020830  
?



13/5/1 (Item 1 from file: 2)

DIALOG(R)File 2:INSPEC

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7593011 INSPEC Abstract Number: A2003-11-9575-004, C2003-05-7350-008

**Title: Data processing factory for the Sloan Digital Sky Survey**

Author(s): Stoughton, C.; Adelman, J.; Annis, J.T.; Hendry, J.; Inkmann, J.; Jester, S.; Kent, S.M.; Kuropatkin, N.; Lee, B.; Huan Lin; Peoples, J., Jr.; Sparks, R.; Tucker, D.; Vanden Berk, D.; Yanny, B.; Yocum, D.

Author Affiliation: Fermi Nat. Accelerator Lab., Batavia, IL, USA

Journal: Proceedings of the SPIE - The International Society for Optical Engineering Conference Title: Proc. SPIE - Int. Soc. Opt. Eng. (USA) vol.4836 p.339-49

Publisher: SPIE-Int. Soc. Opt. Eng,

Publication Date: 2002 Country of Publication: USA

CODEN: PSISDG ISSN: 0277-786X

SICI: 0277-786X(2002)4836L:339:DPFS;1-N

Material Identity Number: C574-2003-006

U.S. Copyright Clearance Center Code: 0277-786X/02/\$15.00

Conference Title: Survey and Other Telescope Technologies and Discoveries

Conference Date: 27-28 Aug. 2002 Conference Location: Waikoloa, HI, USA

Language: English Document Type: Conference Paper (PA); Journal Paper (JP)

Treatment: Practical (P); Theoretical (T)

Abstract: The Sloan Digital Sky Survey (SDSS) data handling presents two challenges: large data volume and timely production of spectroscopic plates from imaging data. A data processing factory, using technologies both old and new, handles this flow. Distribution to end users is via **disk farms**, to serve corrected images and calibrated spectra, and a database, to efficiently process catalog queries. For distribution of modest amounts of data from Apache Point Observatory to Fermilab, scripts use rsync to update files, while larger data transfers are accomplished by shipping magnetic tapes commercially. All data processing pipelines are wrapped in scripts to address consecutive phases: preparation, submission, checking, and quality control. We constructed the factory by chaining these pipelines together while using an operational database to hold processed imaging catalogs. The science database catalogs all imaging and spectroscopic object, with pointers to the various external files associated with them. Diverse computing systems address particular processing phases. UNIX computers handle tape reading and writing, as well as calibration steps that require **access** to a large amount of data with relatively modest computational demands. Commodity CPUs process steps that require **access** to a limited amount of data with more demanding computations requirements. Disk servers optimized for **cost** per Gbyte serve terabytes of processed data, while servers optimized for disk read speed run SQLServer software to process queries on the catalogs. This factory produced data for the SDSS Early Data Release in June 2001, and it is currently producing Data Release One, scheduled for January 2003. (10 Refs)

Subfile: A C

Descriptors: astronomical techniques; astronomical telescopes; astronomy computing; optical information processing

Identifiers: astronomical telescope; survey data; astronomy computing; signal processing; data processing factory; SDSS; data handling; large data volume; optical image; visible photometry; visible spectra; spectroscopy computing; corrected images; calibrated spectra; Apache Point Observatory; Fermilab; data processing pipelines; calibration; SQLServer software; Sloan Digital Sky Survey

Class Codes: A9575M (Astronomical data and image processing); A9555C (Ground-based telescopes); A9575P (Mathematical and computer techniques in astronomy); C7350 (Astronomy and astrophysics computing); C5260B (Computer

vision and image processing techniques)  
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13/5/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
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7157074 INSPEC Abstract Number: C2002-02-5320C-012  
**Title: Design and evaluation of a smart disk cluster for DSS commercial workloads**

Author(s): Memik, G.; Kandemir, M.T.; Choudhary, A.  
Author Affiliation: Dept. of Electr. Eng. & Comput. Eng., Northwestern Univ., Evanston, IL, USA

Journal: Journal of Parallel and Distributed Computing vol.61, no.11  
p.1633-64

Publisher: Academic Press,  
Publication Date: Nov. 2001 Country of Publication: USA  
CODEN: JPD CER ISSN: 0743-7315  
SICI: 0743-7315(200111)61:11L.1633:DESD;1-D  
Material Identity Number: G544-2001-012  
U.S. Copyright Clearance Center Code: 0743-7315/01/\$20.00  
Language: English Document Type: Journal Paper (JP)  
Treatment: Practical (P)

Abstract: The requirements for storage space and computational power of large-scale applications are increasing rapidly. Clusters seem to be the most attractive architecture for such applications, due to their low **costs** and high scalability. On the other hand, smart disk systems, with their large storage capacities and growing computational power are becoming increasingly popular. In this work, we compare the performance of these architectures with a single host-based system using representative queries from the Decision Support System (DSS) databases. We show how to implement individual database operations in the smart disk system and also show how to optimize the execution of the whole query by bundling frequently occurring operations together and executing the bundle in a single invocation. Besides decreasing the overall execution time, operation bundling also offers an easy-to-program and easy-to-use interface to **access** the data on smart disks. We also present a protocol for minimizing the communication time in the smart-disk-based system. To measure the response times, we have developed the DBsim, an accurate simulator which can simulate the database operations for the single host-based, cluster-based, and smart-disk-based systems. Using this simulator, we illustrate that the smart disk architecture offers substantial benefits in terms of overall query execution times of the TPC-D benchmark suite. In particular, the average response time of the smart disk architecture for the representative queries from the TPC-D benchmark in our base configuration is 71% smaller than the response time on the single host-based system and 4.2% smaller than the response time on the fastest cluster architecture. We also demonstrate the effectiveness of the operation bundling and compare the scalabilities of the cluster-based and smart-disk-based systems. (47 Refs)

Subfile: C

Descriptors: decision support systems; disc storage; distributed memory systems; performance evaluation

Identifiers: storage space; computational power; large-scale applications; response times; performance; Clusters; DBsim; smart-disk-based systems; cluster-based; intelligent I/O; cluster of smart disks; decision support systems; embedded systems; distributed databases

Class Codes: C5320C (Storage on moving magnetic media); C7102 (Decision support systems); C5470 (Performance evaluation and testing); C6150N (Distributed systems software)

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13/5/3 (Item 3 from file: 2)

DIALOG(R)File 2:INSPEC

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6975894 INSPEC Abstract Number: B2001-08-6430G-009, C2001-08-5630M-009

**Title: Design of fault-tolerant large-scale VOD servers: With emphasis on high-performance and low- cost**

Author(s): Golubchik, L.; Muntz, R.R.; Cheng-Fu Chou; Berson, S.

Author Affiliation: Dept. of Comput. Sci., Maryland Univ., College Park, MD, USA

Journal: IEEE Transactions on Parallel and Distributed Systems vol.12, no.4 p.363-86

Publisher: IEEE,

Publication Date: April 2001 Country of Publication: USA

CODEN: ITDSEO ISSN: 1045-9219

SICI: 1045-9219(200104)12:4L:363:DFTL;1-C

Material Identity Number: N785-2001-005

U.S. Copyright Clearance Center Code: 1045-9219/2001/\$10.00

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

**Abstract:** Recent technological advances in digital signal processing, data compression techniques, and high-speed communication networks have made Video-on-Demand (VOD) servers feasible. A challenging task in such systems is servicing multiple clients simultaneously while satisfying real-time requirements of continuous delivery of objects at specified **rates**. To accomplish these tasks and realize economies of scale associated with servicing a large user population, a VOD server requires a large disk subsystem. Although a single disk is fairly reliable, a large **disk farm** can have an unacceptably high probability of disk failure. Furthermore, due to real-time constraints, the reliability requirements of VOD systems are even more stringent than those of traditional information systems. Traditional RAID solutions are inadequate due to poor resource **usage**. Thus, in this paper, we present alternative schemes which provide a high degree of reliability at low disk storage, bandwidth, and memory **costs** for on-demand multimedia servers. Moreover, we discuss some of the main issues and trade-offs associated with providing fault tolerance in multidisk VOD systems. We would like to impress upon the reader that one of the main points of this paper is the exposition of trade-offs and issues associated with designing fault-tolerant VOD servers. It is not the case that one fault tolerance scheme is absolutely better than another, but rather that one must understand the trade-offs as well as one's system constraints and then choose a fault tolerance scheme accordingly. (25 Refs)

Subfile: B C

Descriptors: fault tolerant computing; multimedia servers; RAID; video on demand

Identifiers: fault-tolerant; VOD servers; high-performance; low- cost ; digital signal processing; Video-on-Demand; data compression; communication networks; reliability; multimedia servers; fault tolerance

Class Codes: B6430G (Video on demand and video servers); C5630M (Multimedia servers); C5470 (Performance evaluation and testing); C5320C (Storage on moving magnetic media); C5260D (Video signal processing)

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13/5/4 (Item 4 from file: 2)

DIALOG(R)File 2:INSPEC

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6376735 INSPEC Abstract Number: B1999-11-6210L-112, C1999-11-5620L-018  
**Title: Resource management for high-performance PC clusters**  
Author(s): Keller, A.; Brune, M.; Reinefeld, A.  
Author Affiliation: Center for Parallel Comput., Paderborn, Germany  
Conference Title: High-Performance Computing and Networking. 7th International Conference, HPCN Europe 1999. Proceedings p.270-80  
Editor(s): Sloot, P.; Bubak, M.; Hoekstra, A.; Hertzberger, B.  
Publisher: Springer-Verlag, Berlin, Germany  
Publication Date: 1999 Country of Publication: Germany xxiii+1318 pp.  
ISBN: 3 540 65821 1 Material Identity Number: XX-1999-02493  
Conference Title: High-Performance Computing and Networking. 7th International Conference, HPCN Europe 1999. Proceedings  
Conference Date: 12-14 April 1999 Conference Location: Amsterdam, Netherlands  
Language: English Document Type: Conference Paper (PA)  
Treatment: Applications (A); Practical (P)  
Abstract: With the recent availability of **cost** -effective network cards for the PCI bus, researchers have been tempted to build up large **compute clusters** with standard PCs. Many of them are operated with workstation cluster management software in high-throughput or single user mode. For very large clusters with more than 100 PEs, however, it becomes necessary to implement a full fledged resource management software that allows to partition the system for multi-user **access**. In this paper, we present our Computing Center Software (CCS), which was originally designed for managing massively parallel high-performance computers, and now adapted to modern workstation clusters. It provides partitioning of exclusive and non-exclusive resources; hardware-independent scheduling of interactive and batch jobs; open, extensible interfaces to other resource management systems; a high degree of reliability. (18 Refs)  
Subfile: B C  
Descriptors: performance evaluation; processor scheduling; resource allocation; workstation clusters  
Identifiers: resource management; high-performance PC clusters; PCI bus; standard PCs; workstation cluster management software; resource management software; massively parallel high-performance computers; workstation clusters; partitioning; hardware-independent scheduling; reliability  
Class Codes: B6210L (Computer communications); C5620L (Local area networks); C6150J (Operating systems); C5470 (Performance evaluation and testing); C6150N (Distributed systems software); C5670 (Network performance)  
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13/5/5 (Item 5 from file: 2)  
DIALOG(R)File 2:INSPEC  
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5660688 INSPEC Abstract Number: C9709-6120-037  
**Title: Mitra: a scalable continuous media server**  
Author(s): Ghandeharizadeh, S.; Zimmermann, R.; Shi, W.; Rejaie, R.; Ierardi, D.; Li, T.-W.  
Author Affiliation: Dept. of Comput. Sci., Univ. of Southern California, Los Angeles, CA, USA  
Journal: Multimedia Tools and Applications vol.5, no.1 p.79-108  
Publisher: Kluwer Academic Publishers,  
Publication Date: July 1997 Country of Publication: Netherlands  
CODEN: MTAPFB ISSN: 1380-7501  
SICI: 1380-7501(199707)5:1L.79:MSCM;1-#  
Material Identity Number: D433-97004

U.S. Copyright Clearance Center Code: 1380-7501/97/\$9.50

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P); Experimental (X)

**Abstract:** Mitra is a scalable storage manager that supports the display of continuous media data types, e.g. audio and video clips. It is a software-based system that employs off-the-shelf hardware components. Its present hardware platform is a cluster of multi-disk workstations, connected using an ATM switch. Mitra supports the display of a mix of media types. To reduce the **cost** of storage, it supports a hierarchical organization of storage devices and stages the frequently **accessed** objects on the magnetic disks. For the number of displays to scale as a function of additional disks, Mitra employs staggered striping. It implements three strategies to maximize the number of simultaneous displays supported by each disk. First, the EVEREST file system allows different files (corresponding to objects of different media types) to be retrieved at different block size granularities. Second, the FIXB algorithm recognizes the different zones of a disk and guarantees a continuous display while harnessing the average disk transfer **rate**. Third, Mitra implements the grouped sweeping scheme (GSS) to minimize the impact of disk seeks on the available disk bandwidth. In addition to reporting on implementation details of Mitra, we present performance results that demonstrate the scalability characteristics of the system. We compare the obtained results with theoretical expectations based on the bandwidth of participating disks. Mitra attains between 65% and 100% of the theoretical expectations. (33 Refs)

Subfile: C

**Descriptors:** asynchronous transfer mode; file servers; magnetic disc storage; multimedia computing; reconfigurable architectures; software performance evaluation; storage management

**Identifiers:** Mitra; scalable continuous media server; scalable storage manager; continuous media data type display; software-based system; off-the-shelf hardware components; multi-**disk** workstation **cluster**; ATM switch; hierarchical organization; frequently **accessed** objects; magnetic disks; staggered striping; simultaneous displays; EVEREST file system; file retrieval; block size granularity; FIXB algorithm; disk zones; disk transfer **rate**; grouped sweeping scheme; disk seeks; disk bandwidth; performance

**Class Codes:** C6120 (File organisation); C5630 (Networking equipment); C6130M (Multimedia); C5320C (Storage on moving magnetic media)

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13/5/6 (Item 6 from file: 2)

DIALOG(R)File 2:INSPEC

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03472470 INSPEC Abstract Number: B89063642, C89063530

**Title:** An astronomical imaging application using transputers

**Author(s):** Paterson, M.J.; Cormack, W.A.; Herd, J.T.; Beard, S.M.

**Author Affiliation:** R. Obs., Edinburgh, UK

**Conference Title:** ICASSP-89: 1989 International Conference on Acoustics, Speech and Signal Processing (IEEE Cat. No.89CH2673-2) p.1528-31 vol.3

**Publisher:** IEEE, New York, NY, USA

**Publication Date:** 1989 **Country of Publication:** USA 4 vol. 2833 pp.

**U.S. Copyright Clearance Center Code:** CH2673-2/89/0000-1528\$01.00

**Conference Sponsor:** IEEE

**Conference Date:** 23-26 May 1989 **Conference Location:** Glasgow, UK

**Language:** English **Document Type:** Conference Paper (PA)

**Treatment:** Applications (A); Practical (P)

**Abstract:** The authors discuss the role of transputers in high-speed, high-volume data processing and describe the software design methodology

Sylvia Keys

11-May-05 09:08 AM

necessary to support a fully engineered implementation. An advanced microdensitometer, SuperCOSMOS, is currently under development, and provides data at rates of 500 kbytes/s from a linear 2048 element CCD (charge coupled device) array. Particular attention is given to the operation of the current COSMOS machine, the development of SuperCOSMOS, the ported process, topologies, and the interface. Porting of algorithms for the real-time processing required by SuperCOSMOS has proved straightforward, and it seems likely that offline processing will be transferred to another array of transputers in order to exploit the processing power available. Each offline domain will consist of one or more transputers and 24 Mbytes of memory and will have access to those sections of the disk farm not being used for data acquisition. (3 Refs)

Subfile: B C

Descriptors: astronomy computing; computerised picture processing; parallel machines

Identifiers: astronomical imaging application; transputers; high-volume data processing; software design; microdensitometer; SuperCOSMOS; charge coupled device; COSMOS machine; ported process; topologies; interface; real-time processing; offline processing; data acquisition; 24 Mbyte

Class Codes: B6140C (Optical information processing); C7350 (Astronomy and astrophysics); C5440 (Multiprocessor systems and techniques); C7410F (Communications)

Numerical Indexing: memory size 2.5E+07 Byte

13/5/7 (Item 1 from file: 35)

DIALOG(R)File 35:Dissertation Abs Online

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01986104 ORDER NO: AADAA-IC815360

**Distribution and storage of data on local and remote disks in multi-use clusters of commodity PCs**

Author: Rauch, Felix Viktor

Degree: Dr.sc.techn.

Year: 2003

Corporate Source/Institution: Eidgenoessische Technische Hochschule Zuerich (Switzerland) (0663)

Source: VOLUME 65/02-C OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 490. 191 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

ISBN: 3-89649-893-2

Publisher: Hartung-Gorre Verlag, D-78465 Konstanz, Germany

Over the last few decades, the power of personal computers (PCs) has grown steadily, following the exponential growth rate predicted by Moore's law. The trend towards the commoditization of PC components (such as CPUs, memories, high-speed interconnects and disks) results in a highly attractive price/performance ratio of the systems built from those components. Following these trends, I propose to integrate the commodity IT resources of an entire company or organization into *multi-use clusters of commodity PCs*. These include **compute farms**, experimental clusters as well as desktop PCs in offices and labs. This thesis follows a bottom-up architectural approach and deals with hardware and system-software architecture with a tight focus on performance and efficiency. In contrast, the Grid view of providing services instead of hardware for storage and computation deals mostly with problems of capability, service and security rather than performance and modelling thereof.

Multi-use clusters of commodity PCs have by far enough storage on their hard-disk drives for the required local operating-system (OS) installation and therefore there is a lot of excess storage in a multi-use cluster. This additional disk space on the nodes should be put to a better use for a variety of interesting applications e.g. for on-line analytic data processing (OLAP). The specific contributions of the thesis include solutions to four important problems of optimized resource **usage** in multi-use-cluster environments.

Analytic models of computer systems are important to understand the performance of current systems and to predict the performance of future systems early in the design stage. The thesis introduces a simple *<italic>analytic model of data streams in clusters</italic>*. The model considers the topology of data streams as well as the limitations of the edges and nodes. It also takes into account the limitations of the resources within the nodes, which are passed through by the data streams. (Abstract shortened by UMI.)

13/5/8 (Item 2 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01738635 ORDER NO: AADAA-I9964446

**Programming model, algorithms and performance evaluation** of active disks

Author: Uysal, Mustafa

Degree: Ph.D.

Year: 1999

Corporate Source/Institution: University of Maryland College Park (0117)

Director: Joel H. Saltz

Source: VOLUME 61/03-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 1499. 147 PAGES

Descriptors: COMPUTER SCIENCE ; ENGINEERING, ELECTRONICS AND ELECTRICAL

Descriptor Codes: 0984; 0544

Growth and **usage** trends for several data-intensive applications indicate that their datasets and processing requirements are growing rapidly. Meeting these rapidly increasing demands requires architectures that scale processing power with the storage capacity and throughput. Active Disks integrate significant processing power and memory into a disk drive and allow application-specific code to be downloaded and executed in the disk. Active Disks naturally scale the processing power of the system with increasing storage capacity, offer dramatic reduction in data traffic and improve the price/performance for large installations by off-loading computation to inexpensive embedded disk processors.

To program Active Disks, we have developed a stream-based programming model that facilitates safety and efficiency of the disk-resident code (called disklets) while simplifying programming and restructuring of applications. We have identified operating system support (called DiskOS) for the stream-based programming model to coordinate and control disklet execution in conjunction with the host operating system. We have also shown how this programming model can be implemented as a simple backward compatible extension of the SCSI protocol. We have developed techniques for identification and control of Active Disks using the extended SCSI protocol.

We have demonstrated the potential of Active Disks for a wide range of data-intensive applications from data-warehousing, data-mining, satellite data processing and image databases. Results show that for the same I/O interconnect, disks and number of processors, Active Disks provide better price/performance than both SMP-based conventional **disk farms** and commodity clusters. Active Disks outperform SMP-based **disk farms** by up to an order of magnitude and match (in some cases improve upon) the

performance of commodity clusters for less than half the **cost** .  
?